



# AE Order Number Banner

## Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



**App Number:** pCOH0806348578

**1RP - 1799**

**SOUTHERN UNION GAS COMPANY**

19.

**Operator Application Certification:**

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

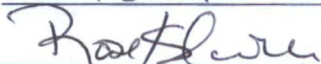
Name (Print):

Rose Slade

Title:

Environmental Specialist

Signature:



Date:

5/1/2013

e-mail address:

rose.slade@energytransfer.com

Telephone:

432 940 5147

20.

**OCD Approval:** ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature:

  
Environmental Specialist

Approval Date:

6/10/13

Title:

OCD Permit Number:

21.

**Closure Report (required within 60 days of closure completion):** Subsection K of 19.15.17.13 NMAC*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*☒ Closure Completion Date: 4/3/13

22.

**Closure Method:**☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)  
☐ If different from approved plan, please explain.

23.

**Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:***Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.*

Disposal Facility Name:

Disposal Facility Permit Number:

Disposal Facility Name:

Disposal Facility Permit Number:

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations

- ☐
- Site Reclamation (Photo Documentation)
- 
- ☐
- Soil Backfilling and Cover Installation
- 
- ☐
- Re-vegetation Application Rates and Seeding Technique

APPROVED BUT NEEDS 1ST  
4 PAGES OF C-144  
BASINFAX 396-1429

24.

**Closure Report Attachment Checklist:** *Instructions: Each of the following items mark in the box, that the documents are attached.*

check

- ☒
- Proof of Closure Notice (surface owner and division)
- 
- ☐
- Proof of Deed Notice (required for on-site closure)
- 
- ☐
- Plot Plan (for on-site closures and temporary pits)
- 
- ☒
- Confirmation Sampling Analytical Results (if applicable)
- 
- ☐
- Waste Material Sampling Analytical Results (required for on-site closure)
- 
- ☒
- Disposal Facility Name and Permit Number
- 
- ☒
- Soil Backfilling and Cover Installation
- 
- ☐
- Re-vegetation Application Rates and Seeding Technique
- 
- ☒
- Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude

Longitude

NAD: ☐ 1927 ☐ 1983

HOBBS OCD

MAY 07 2013

RECEIVED

25.

**Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Rose Slade

Title: EH&amp;S Specialist Energy Transfer

Signature:



Date:

5/7/2013

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HOBBS OCD

MAY 07 2013

## **REMEDIATION SUMMARY & RISK-BASED SITE CLOSURE REQUEST**

RECEIVED

**SOUTHERN UNION GAS SERVICES  
EUMONT TANK BATTERY (1RP-1799)  
HISTORICAL RELEASE SITE**

**Lea County, New Mexico**

**Unit Letter "N" (SE/SW), Section 30, Township 20 South, Range 37 East**

**Latitude 32.538508° North, Longitude -103.294912° West**

**NMOCD Reference # 1RP-1799**

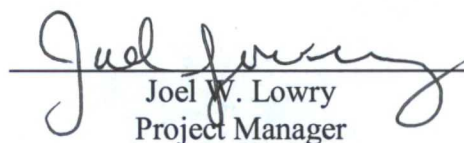
Prepared For:

Southern Union Gas Services  
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Monahans, TX 79756

Prepared By:

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3100 Plains Highway  
Lovington, New Mexico 88260

April 2013

  
Joel W. Lowry  
Project Manager

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## **1.0 INTRODUCTION & BACKGROUND INFORMATION**

Basin Environmental Service Technologies, LLC (Basin), on behalf of Southern Union Gas Services (Southern Union), has prepared this *Remediation Summary & Risk-Based Site Closure Request* for the Eumont Tank Battery Historical Release Site (1RP-1799). The legal description of the release site is Unit Letter "N" (SE/SW), Section 30, Township 20 South, Range 37 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32.538508° North latitude and -103.294912° West longitude. The property affected by the release is owned Enterprise Field Services.

On February 15, 2008, Southern Union filed a "Pit or Below-Grade Tank Registration of Closure Form" (Form C-144) with the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office, registering the Eumont Tank Battery and notifying them of their intentions to remove the on-site below-grade tank (BGT) and remediate the area. The Form C-144 described the BGT as a steel, one hundred barrel (100 bbl) tank used to contain produced water and crude oil. The C-144 indicated the tank was installed by El Paso Natural Gas (EPNG) before the BGT regulations were written.

On February 18, 2008, the BGT was removed and the adjacent soil was remediated. Nine (9) soil samples (A Floor, B Floor, C Floor, D Floor, E Floor, North Wall, South Wall, East Wall and West Wall) were collected from the excavated area defined by the former BGT location and submitted to the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated TPH concentrations were less than the appropriate laboratory method detection limit (MDL) for each of the submitted soil samples with the exception of soil sample East Wall, which had a concentration of 126.8 mg/Kg. Soil sample E Floor was also analyzed for BTEX and chloride concentrations, which were determined to be 0.0167 mg/Kg and 429 mg/Kg, respectively. During the on-site tank removal and associated remediation activities a historical "pit" was discovered west of the BGT location. Four (4) initial soil samples (Pit Surface, Pit 2' bgs, Pit 8' bgs, and Pit 9'6" bgs) were collected from the historical pit and submitted to the laboratory for analysis of TPH concentrations. Analytical results indicated TPH concentrations ranged from 555 mg/Kg for soil sample Pit 2' bgs to 65,600 mg/Kg for soil sample Pit Surface. Based on laboratory analytical results from initial soil samples collected from the on-site pit, it was determined that further remediation would be required. General photographs of the release site are provided as Appendix A. The Form C-144 is provided as Appendix D.

## **2.0 NMOCD SITE CLASSIFICATION**

The initial C-144 that the depth to groundwater is approximately seventy-four feet (74') below ground surface (bgs). Laboratory analytical results from soil samples collected during the advancement of on-site soil bores indicate the soil impact extends to approximately thirty-five feet (35') bgs. Based on the NMOCD ranking system, twenty (20) points will be assigned to the site as a result of this criterion.

A search of the New Mexico Water Rights Reporting System (NMWRRS) database indicated there are no registered water wells within one thousand feet (1,000') feet of the location. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.



There are no surface water bodies within one thousand feet (1,000') of the location. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

NMOCD guidelines indicate the Eumont Tank Battery Historical Release Site has an initial ranking score of twenty (20) points. The soil remediation levels for a site with a ranking score of greater than nineteen (>19) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- Benzene, toluene, ethylbenzene and xylene (BTEX) – 50 mg/Kg (ppm)
- Total petroleum hydrocarbons (TPH) – 100 mg/Kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

### **3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES**

On August 22, 2012, Basin responded to the Eumont Tank Battery Historical Remediation Site. A series of test trenches were advanced within the area defined by the historical "pit". Test trench TT-1 was advanced to approximately 16' bgs within the inferred center of the pit location. During the advancement of the test trench, soil samples were collected at 3' 10' and 16' bgs and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Analytical results indicated BTEX concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples with the exception of the soil sample collected at 16' bgs, which had a concentration of 0.04161 mg/Kg. TPH concentrations ranged from 1,050 mg/Kg for soil sample TT-1 @ 3' to 7,180 mg/Kg for soil sample TT-1 @ 10'. Chloride concentrations ranged from 1.46 mg/Kg for soil sample TT-1 @ 3' to 12.9 mg/Kg for soil sample TT-1 @ 10'. Based on laboratory analytical results, it was determined that the advancement of one or more soil bores would be necessary to determine the vertical extent of soil impact. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". Soil sample locations are depicted in Figure 2, "Site & Sample Location Map". Laboratory analytical reports are provided as Appendix C.

Test trench TT-2 was advanced near the inferred western margin of the historical pit. During the advancement of the test trench, two (2) soil samples (TT-2 West and TT-2 East) were collected at 6' bgs from the western and eastern portion of the trench and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Analytical results indicated BTEX concentrations were less than the laboratory MDL for each of the submitted soil samples. TPH concentrations ranged from less than the laboratory MDL for soil sample TT-2 West to 29,200 mg/Kg for soil sample TT-2 East. Chloride concentrations ranged from 8.9 mg/Kg for soil sample TT-2 East to 10.8 mg/Kg for soil sample TT-2 West. Based on field observation and laboratory analytical results, it was determined that the western margin of the impacted area had been discovered.

Test trench TT-3 was advanced to the north of the inferred pit location from an area thought to have been impacted by overflow from the pit. During the advancement of the test trench, one (1) soil sample was collected at 8' bgs and submitted to the laboratory for analysis of BTEX, TPH



and chloride concentrations. Laboratory analytical results indicated BTEX and TPH concentrations were less than the appropriate laboratory MDL. The chloride concentration was 135 mg/Kg.

Test trench TT-4 was advanced along the southern margin of the inferred pit location. During the advancement of the test trench, one (1) soil sample was collected at 7' bgs and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX and TPH concentrations were less than the appropriate laboratory MDL. The chloride concentration was 7.48 mg/Kg.

On February 25, 2013, two (2) soil bores were advanced at the location in an effort to determine the vertical extent of soil impact. Soil bore SB-1 was advanced to approximately 40' bgs in the eastern portion of the inferred pit location. During the advancement of the soil bore, soil samples were collected at 5' drilling intervals and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations ranged from 46,200 mg/Kg for the soil sample collected at 5' bgs to less than the appropriate laboratory MDL for the soil samples collected at 35' and 40' bgs. Chloride concentrations ranged from 1,390 mg/Kg for the soil sample collected at 10' bgs to 9.72 mg/Kg for the soil sample collected at 30' bgs. Soil samples collected at 20', 30', and 40' bgs were also analyzed for concentrations of BTEX, which were determined to be less than the appropriate laboratory MDL for each of the submitted soil samples with the exception of SB-1 @ 20' bgs, which had a concentration of 1.27 mg/Kg. Based on laboratory analytical results it was determined that soil impact did not extend past 35' bgs in the western portion of the historical pit in the area defined by soil bore SB-1.

Soil bore SB-2 was advanced to approximately 40' bgs in the western portion of the inferred pit location. During the advancement of the soil bore, soil samples were collected at 5' drilling intervals and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations ranged from 5,240 mg/Kg for the soil sample collected at 5' bgs to less than the appropriate laboratory MDL for the soil samples collected at 35' and 40' bgs. Chloride concentrations ranged from 1,770 mg/Kg for the soil sample collected at 20' bgs to 16.2 mg/Kg for the soil sample collected at 5' bgs. Soil samples collected at 20', 30', and 40' bgs were also analyzed for concentrations of BTEX, which were determined to be less than the appropriate laboratory MDL for each of the submitted soil samples. Based on laboratory analytical results it was determined that soil impact did not extend past 35' bgs in the eastern portion of the historical pit in the area defined by soil bore SB-2.

On March 5, 2013, Basin began excavation activities at the remediation site. The floor of the excavation was advanced to approximately 15' bgs. Excavation sidewalls were advanced until field tests suggested concentrations of BTEX, TPH and chloride were less than NMOCD regulatory standards. Excavated material was stockpiled on-site pending final disposition.

On March 13, 2013, Basin collected thirteen (13) soil samples (Main Exc. NW#1, Main Exc. NW#2, Main Exc. SW#1, Main Exc. SW#2, Main Exc. SW#3, Main Exc. WW#1, Main Exc. WW#2, Main Exc. EW#1, Main Exc. EW#2, Main Exc. EW#3, NW Exc. WW, NW Exc. EW and NW Exc. Floor) were collected and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples. TPH concentrations ranged from less than the appropriate laboratory MDL for soil samples Main Exc.



NW#1, Main Exc. NW#2, Main Exc. SW#1, Main Exc. WW#1, Main Exc. WW#2, Main Exc. EW#3 and NW Exc. Floor to 68.1 mg/Kg for soil sample Main Exc. SW#3. Chloride concentrations ranged from less than the appropriate laboratory MDL for soil samples Main Exc. NW #1 and Main Exc. WW#2 to 183 mg/Kg for soil sample Main Exc. SW#1. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below NMOCD regulatory standards in each of the submitted soil samples.

On March 18, 2013, one (1) addition soil samples (NW Exc. NW) was collected from the excavation and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX and TPH concentrations were less than the appropriate laboratory MDL. The chloride concentration was 17.6 mg/Kg. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below NMOCD regulatory standards.

On March 22, 2013, at the request of the NMOCD, a portion of the excavation defined by test trench TT-1 and soil bore SB-1 was advanced an additional five feet (5') in an effort to remove additional contamination.

Between November 26, 2012, and February 1, 2013, approximately 3,324 cubic yards of impacted material was transported to South Monument Surface Waste Facility (NMOCD Permit #NM-01-0032) and/or Sundance Services, Inc. (NMOCD Permit #NM-01-0003), for disposal. The final dimensions of the excavation were approximately 115' in length, 35' in width and 15' in depth. Copies of disposal manifests are provided as Appendix B.

On March 25, 2013, on receiving approval from an NMOCD representative, a 20-millimeter polyurethane liner was installed in the floor of the excavation at approximately fifteen feet (15') bgs. A one-foot (1') layer of pad sand was installed above and below the liner to maintain its integrity during backfilling activities. This engineering control was designed to inhibit the vertical migration of contaminants left in place. Upon installation of the liner, the excavation was backfilled with locally purchased, non-impacted material. Excavation backfill was compacted in lifts and contoured to match the surrounding topography. The location will be reseeded at a time more conducive to germination.



## **4.0 QA/QC PROCEDURES**

### **4.1 Soil Sampling**

Soil samples were delivered to Permian Basin Environmental Lab LP, of Midland, Texas, for BTEX, TPH, and/or chloride analyses using the methods described below:

- BTEX concentrations in accordance with EPA Method SW-846 8021b
- TPH concentrations in accordance with modified EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method 300.0

### **4.2 Decontamination of Equipment**

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

### **4.3 Laboratory Protocol**

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

## **5.0 SITE CLOSURE REQUEST**

Laboratory analytical results from confirmation soil samples collected from the sidewalls of the Eumont Tank Battery excavation indicated concentrations of benzene, BTEX, TPH and chloride were less than NMOCD regulatory standards. An approved 20-mil polyurethane liner was installed in the floor of the excavation at approximately fifteen feet (15') bgs. This engineering control is designed to inhibit the vertical migration of contaminants left in-situ. Based on these laboratory analytical results and the installation of an approved engineering control, Basin recommends Southern Union provide the NMOCD Hobbs District Office a copy of this *Remediation Summary & Risk-Based Site Closure Request* and request the NMOCD grant site closure to the Eumont Tank Battery Historical Release Site.

## 6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Risk-Based Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Southern Union Gas Services. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or Southern Union Gas Services.



## **7.0 DISTRIBUTION**

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rose.slade@sug.com
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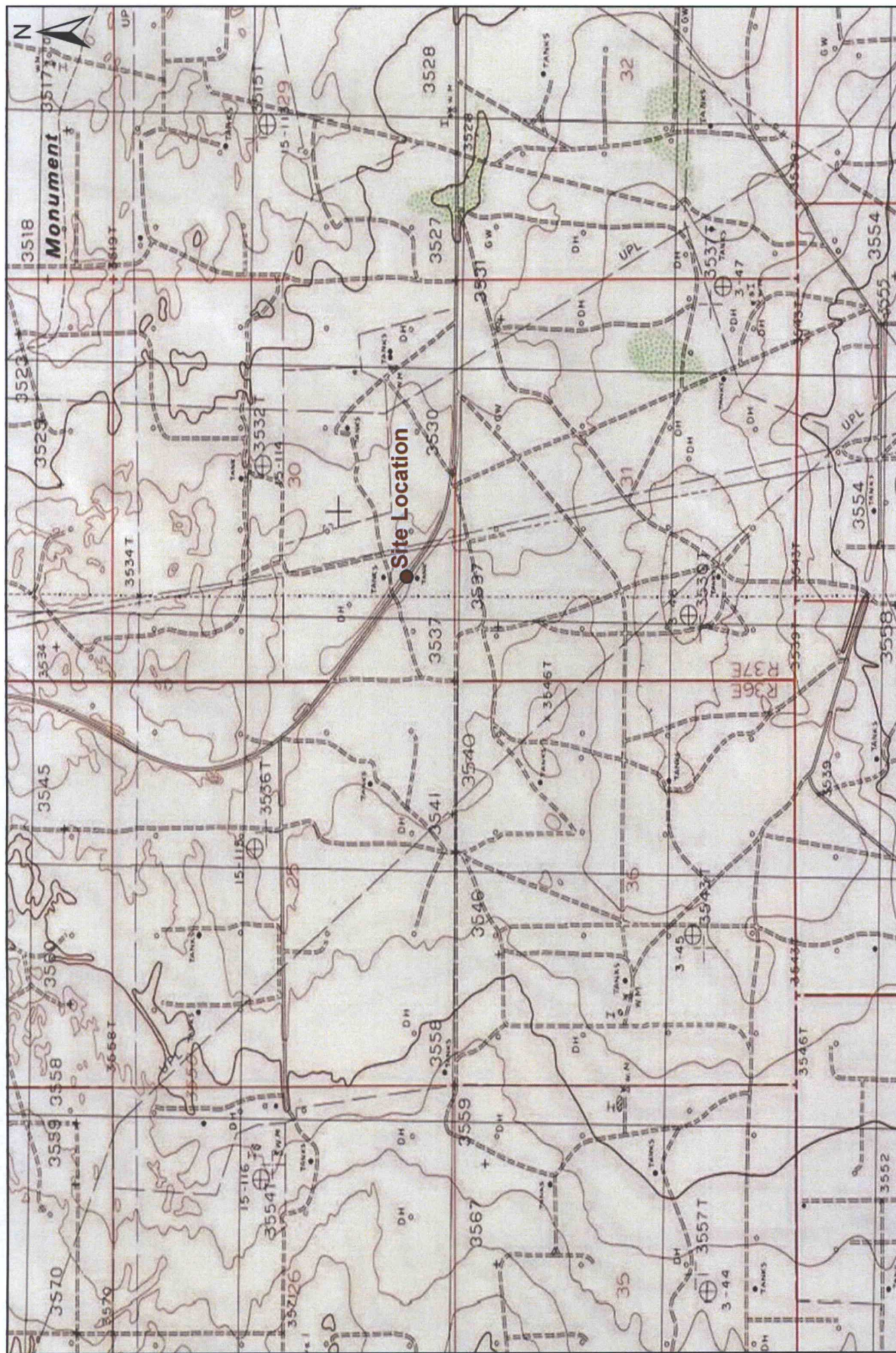


Figure 1


### Figure 1 Site Location Map

**Southern Union Gas Services**  
**Eumont Tank Battery Historical**


Lea County, New Mexico

NMOC Reference #: 1RP-1799

NMOC Reference #: 1RP-1799

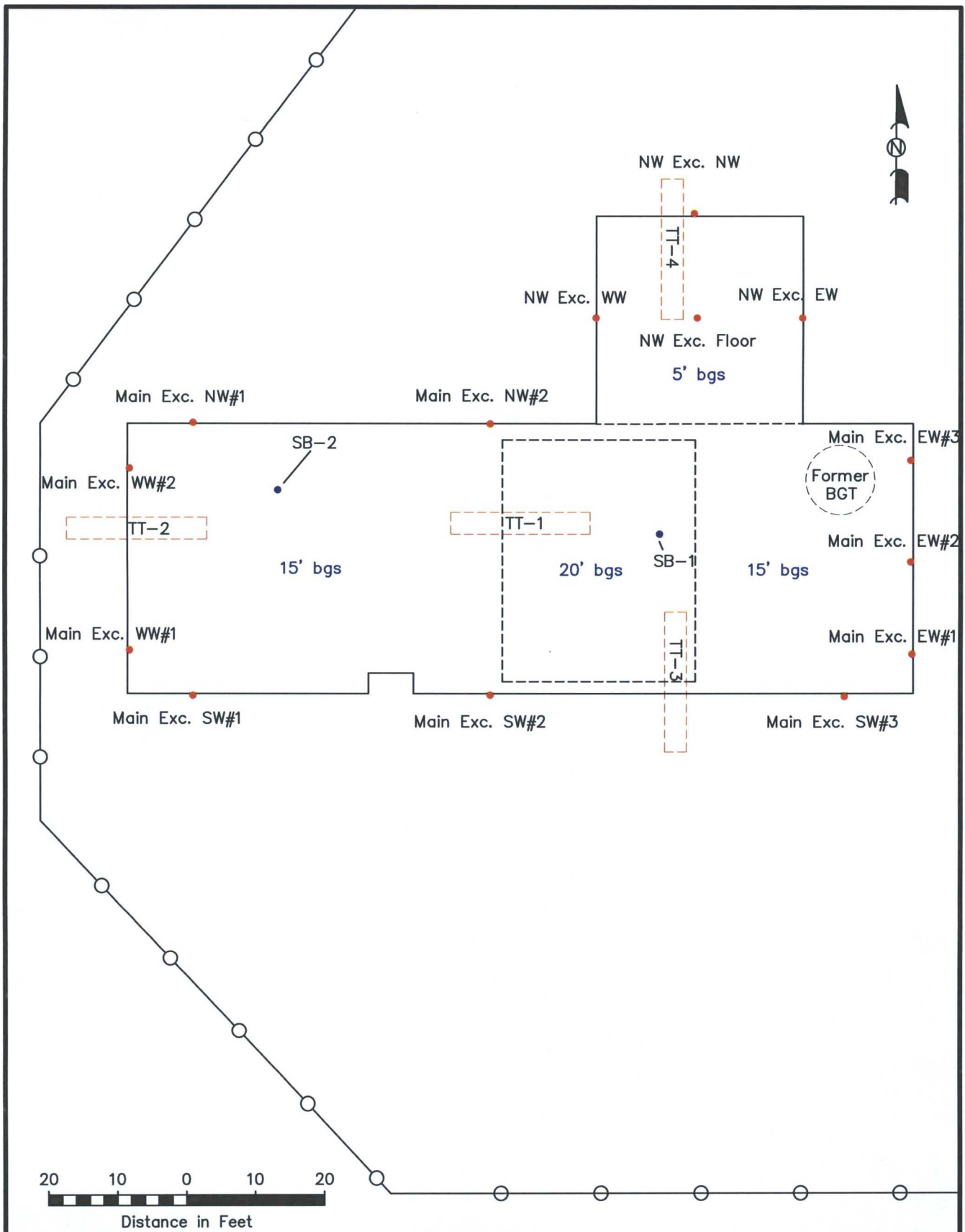


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Service Technologies**  
Effective Solutions



**Basin Environmental  
Service Technologies**  
Effective Solutions





#### LEGEND:

- Excavation Extent
- Fence
- Sample Location
- Soil Boring
- - - Test Trench
- Former BGT

Figure 2  
Site & Sample Location Map  
Southern Union Gas Services  
Eumont Tank Battery (1RP-1799)  
Lea County, NM

Basin Environmental Services

Scale: 1" = 20'

August 23, 2012

Drawn By: JWL

Prepared By: BRB

TABLE 1

## CONCENTRATIONS OF BENZENE, BTEX, TPH &amp; CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES  
EUMONT TANK BATTERY  
HISTORICAL RELEASE SITE  
LEA COUNTY, NEW MEXICO  
NMOC REF# 1RP-1799

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M				TOTAL TPH C <sub>9</sub> -C <sub>35</sub> (mg/Kg)	METHOD: E300.0 CHLORIDE (mg/Kg)
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>9</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>13</sub> -C <sub>28</sub> (mg/Kg)	ORO C <sub>29</sub> -C <sub>35</sub> (mg/Kg)			
A Floor	N/A	2/19/2008	In-Situ	-	-	-	-	-	<16.4	<16.4	<16.4	<16.4	-	-
B Floor	N/A	2/19/2008	In-Situ	-	-	-	-	-	<16.1	<16.1	<16.1	<16.1	-	-
C Floor	N/A	2/19/2008	In-Situ	-	-	-	-	-	<15.8	<15.8	<15.8	<15.8	-	-
D Floor	N/A	2/19/2008	In-Situ	-	-	-	-	-	<16.2	<16.2	<16.2	<16.2	-	-
E Floor	N/A	2/19/2008	In-Situ	<0.0011	<0.0023	0.0038	0.0072	0.0167	<17.2	<17.2	<17.2	<17.2	429	-
North Wall	N/A	2/19/2008	In-Situ	-	-	-	-	-	<16.9	<16.9	<16.9	<16.9	-	-
South Wall	N/A	2/19/2008	In-Situ	-	-	-	-	-	<16.5	<16.5	<16.5	<16.5	-	-
East Wall	N/A	2/19/2008	In-Situ	-	-	-	-	-	16.8	110	<15.8	126.8	-	-
West Wall	N/A	2/19/2008	In-Situ	-	-	-	-	-	<16.7	<16.7	<16.7	<16.7	-	-
Pit Surface	Surface	2/19/2008	In-Situ	-	-	-	-	-	2.800	52.800	10.000	65.600	-	-
Pit 2' BGS	2'	2/19/2008	In-Situ	-	-	-	-	-	<15.8	386	169	555	-	-
Pit 8' BGS	8'	2/19/2008	In-Situ	-	-	-	-	-	1.240	13.700	1.700	16.640	-	-
Pit 9.6' BGS	9.5'	2/19/2008	In-Situ	<0.0054	0.0608	0.1709	0.8817	1.1134	497	2.990	294	3.781	42.0	-
TT-1 @ 3'	3'	8/22/2012	In-Situ	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	<15.3	725	324	1,050	1.46	-
TT-1 @ 10'	10'	8/22/2012	In-Situ	<0.00200	<0.0400	<0.0200	<0.0400	<0.0400	731	5,480	971	7,180	12.9	-
TT-1 @ 16'	16'	8/22/2012	In-Situ	<0.00100	<0.00200	0.00641	0.0352	0.04161	149	3,220	625	3,990	7.6	-
TT-2 West	6'	8/22/2012	In-Situ	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	<15.8	<15.8	<15.8	<15.8	10.8	-
TT-2 East	6'	8/22/2012	In-Situ	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	361	24,900	3,870	29,200	8.90	-
TT-3 @ 8'	8'	8/22/2012	In-Situ	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	<15.6	<15.6	<15.6	<15.6	135	-
TT-4 @ 7'	7'	8/22/2012	In-Situ	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	<15.5	<15.5	<15.5	<15.5	7.48	-
SB-1 @ 5'	5'	2/25/2013	Excavated	-	-	-	-	-	1,850	40,000	4,360	46,200	94.3	-
SB-1 @ 10'	10'	2/25/2013	Excavated	-	-	-	-	-	594	6,760	592	7,950	1,390	-
SB-1 @ 15'	15'	2/25/2013	In-Situ	-	-	-	-	-	740	4,260	298	5,300	21.0	-
SB-1 @ 20'	20'	2/25/2013	In-Situ	0.00945	0.0143	0.354	0.888	1.27	374	6,140	576	7,090	11.5	-
SB-1 @ 25'	25'	2/25/2013	In-Situ	-	-	-	-	-	28.5	767	68.8	864	13.7	-
SB-1 @ 30'	30'	2/25/2013	In-Situ	<0.00106	<0.00213	<0.00106	<0.00213	<0.00213	<16.0	120	<16.0	120	9.72	-
SB-1 @ 35'	35'	2/25/2013	In-Situ	-	-	-	-	-	<15.8	<15.8	<15.8	<15.8	20.2	-
SB-1 @ 40'	40'	2/25/2013	In-Situ	<0.00104	0.00208	<0.00104	0.00208	0.00208	<15.6	<15.6	<15.6	<15.6	16.4	-



TABLE 1

## CONCENTRATIONS OF BENZENE, BTEX, TPH &amp; CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES  
EUMONT TANK BATTERY  
HISTORICAL RELEASE SITE  
LEA COUNTY, NEW MEXICO  
NMOCD REF# 1RP-1799

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M				TOTAL TPH C <sub>10</sub> -C <sub>36</sub> (mg/Kg)	METHOD: E300.0 CHLORIDE (mg/Kg)
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GR C <sub>9</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/Kg)			
SB-2 @ 5'	5'	2/25/2013	Excavated	-	-	-	-	-	157	4,630	456	5,240	16.2	
SB-2 @ 10'	10'	2/25/2013	Excavated	-	-	-	-	-	<17.1	154	<17.1	154	35.7	
SB-2 @ 15'	15'	2/25/2013	In-Situ	-	-	-	-	-	<16.8	21.8	<16.8	21.8	1,030	
SB-2 @ 20'	20'	2/25/2013	In-Situ	<0.00110	<0.00221	<0.00110	<0.00221	<0.00221	<16.5	27.4	<16.5	27.4	1,770	
SB-2 @ 25'	25'	2/25/2013	In-Situ	-	-	-	-	-	<16.3	103	<16.3	103	1,340	
SB-2 @ 30'	30'	2/25/2013	In-Situ	<0.00106	<0.00212	<0.00106	<0.00212	<0.00212	<15.9	24.6	<15.9	24.6	517	
SB-2 @ 35'	35'	2/25/2013	In-Situ	-	-	-	-	-	<15.5	<15.5	<15.5	<15.5	211	
SB-2 @ 40'	40'	2/25/2013	In-Situ	<0.00104	<0.00208	<0.00104	<0.00208	<0.00208	<15.4	<15.4	<15.4	<15.4	109	
Main Exc. NW#1	12'	3/13/2013	In-Situ	<0.00104	<0.00208	<0.00104	<0.00208	<0.00208	<15.6	<15.6	<15.6	<15.6	<4.17	
Main Exc. NW#2	12'	3/13/2013	In-Situ	<0.00109	<0.00218	<0.00109	<0.00218	<0.00218	<16.4	<16.4	<16.4	<16.4	156	
Main Exc. SW#1	12'	3/13/2013	In-Situ	<0.00110	<0.00221	<0.00110	<0.00221	<0.00221	<16.5	<16.5	<16.5	<16.5	183	
Main Exc. SW#2	12'	3/13/2013	In-Situ	<0.00116	<0.00231	<0.00116	<0.00231	<0.00231	<17.4	19.7	<17.4	19.7	77.9	
Main Exc. SW#3	12'	3/13/2013	In-Situ	<0.00106	<0.00212	<0.00106	<0.00212	<0.00212	<16.0	68.1	<16.0	68.1	23.1	
Main Exc. WW#1	12'	3/13/2013	In-Situ	<0.00109	<0.00218	<0.00109	<0.00218	<0.00218	<16.3	<16.3	<16.3	<16.3	11.0	
Main Exc. WW#2	12'	3/13/2013	In-Situ	<0.00108	<0.00215	<0.00108	<0.00215	<0.00215	<16.3	<16.3	<16.3	<16.3	<4.35	
Main Exc. EW#1	12'	3/13/2013	In-Situ	<0.00107	<0.00214	<0.00107	<0.00214	<0.00214	<16.2	28.1	<16.2	28.1	59.6	
Main Exc. EW#2	12'	3/13/2013	In-Situ	<0.00111	<0.00222	<0.00111	<0.00222	<0.00222	<16.7	25.4	<16.7	25.4	42.7	
Main Exc. EW#3	12'	3/13/2013	In-Situ	<0.00111	<0.00222	<0.00111	<0.00222	<0.00222	<16.6	<16.6	<16.6	<16.6	104	
NW Exc. WW	3'	3/13/2013	In-Situ	<0.00108	<0.00216	<0.00108	<0.00216	<0.00216	<16.2	24.6	<16.2	24.6	14.1	
NW Exc. EW	3'	3/13/2013	In-Situ	<0.00114	<0.00228	<0.00114	<0.00228	<0.00228	<17.3	17.5	<17.3	17.5	62.7	
NW Exc. Floor	5'	3/13/2013	In-Situ	<0.00107	<0.00214	<0.00107	<0.00214	<0.00214	<16.1	<16.1	<16.1	<16.1	12.0	
NW Exc. NW	3'	3/18/2013	In-Situ	<0.00105	<0.00210	<0.00105	<0.00210	<0.00210	<15.9	<15.9	<15.9	<15.9	17.6	
NMOCD Standard				10				50				100	250	



Photograph of surface staining from the historical pit at the Eumont Tank Battery Remediation Site.



Photograph of the advancement of soil bores at the Eumont Tank Battery Remediation Site.





Photograph of delineation activities at the Eumont Tank Battery Remediation Site.



Photograph of excavation activities at the Eumont Tank Battery Remediation Site.





Photograph of excavation activities at the Eumont Tank Battery Remediation Site.



Photograph of the complete excavation at the Eumont Tank Battery Remediation Site.



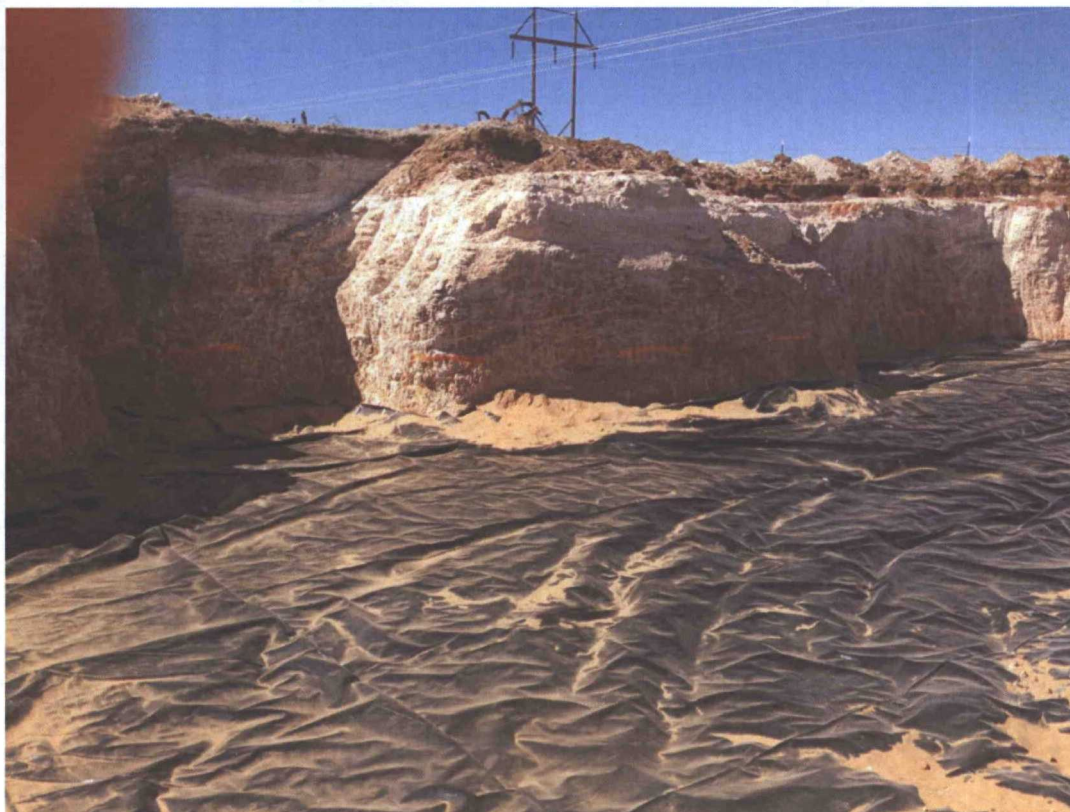


Photograph of the complete excavation at the Eumont Tank Battery Remediation Site.



Photograph of the installation of pad sand at the Eumont Tank Battery Remediation Site.





Photograph of the installation of the polyurethane liner at the Eumont Tank Battery Remediation Site.



Photograph of backfilling activities at the Eumont Tank Battery Remediation Site.





Photograph of backfilling activities at the Eumont Tank Battery Remediation Site.



Photograph of the Eumont Tank Battery after Remediation activities.





**SUNDANCE SERVICES, Inc.**  
P.O. Box 1737 El Centro, New Mexico 88231  
(575) 394-2511

**TICKET No. 238863**

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE: 3/1/13

VEHICLE NO:

CHARGE TO:

TIME: 3:35 AM/PM

GENERATOR COMPANY  
MARKET NAME

REG NAME  
AND NUMBER

310-7595

**TYPE OF MATERIAL**

- ☐ Production Water
- ☐ Drilling Fluids
- ☒ Contaminated Soil
- ☐ Tank Bottoms
- ☐ Solids
- ☐ BSWW Content:

- ☐ Rinsate
- ☐ Jet Out
- ☐ Call Out

Description:

RRC or API #

VOLUME OF MATERIAL

1 BBL.

1 YARD

1

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Act #1

Pink - Transporter

Be order from: TOTALLY SHARP ADVERTISING - 432 586 5401 - www.PromoSuppliesMarket.com



**SUNDANCE SERVICES, Inc.**  
P.O. Box 1737 El Centro, New Mexico 88231  
(575) 394-2511

**TICKET No. 238861**

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE: 3/1/13

VEHICLE NO:

CHARGE TO:

TIME: 8:05 AM/PM

GENERATOR COMPANY  
MARKET NAME

REG NAME  
AND NUMBER

310-7595

**TYPE OF MATERIAL**

- ☐ Production Water
- ☐ Drilling Fluids
- ☒ Contaminated Soil
- ☐ Tank Bottoms
- ☐ Solids
- ☐ BSWW Content:

- ☐ Rinsate
- ☐ Jet Out
- ☐ Call Out

Description:

RRC or API #

VOLUME OF MATERIAL

1 BBL.

1 YARD

1

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Act #1

Pink - Transporter

Be order from: TOTALLY SHARP ADVERTISING - 432 586 5401 - www.PromoSuppliesMarket.com





# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 238860

LEASE OPERATOR/SHIPPER/COMPANY: SLG

LEASE NAME: Slumet Tank - Batley

TRANSPORTER COMPANY: Slumet Tank - Batley

DATE: 3-11-13 VEHICLE NO: 880-7565

CHARGE TO: SLG

TIME: 8:32 AM/PM

GENERATOR COMPANY  
BANK NAME

REG NAME  
AND NUMBER

## TYPE OF MATERIAL

- ☐ Production Water ☐ Drilling Fluids ☐ Rinsate  
☐ Tank Bottoms ☐ Contaminated Soil ☐ Jet Out  
☐ Solids ☐ BSSW Content: ☐ Call Out

Description:

RRC or API #

VOLUME OF MATERIAL ☐ BBLs ☐ YARD 20 : ☐

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

By order from: TOTALLY SHARP ADVERTISING - 432-586-5401 • www.PrimusSupermarket.com



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 238792

LEASE OPERATOR/SHIPPER/COMPANY: SLG

LEASE NAME: Slumet Tank - Batley

TRANSPORTER COMPANY: Slumet Tank - Batley

DATE: 3-11-13 VEHICLE NO: 880-7565

CHARGE TO: SLG

TIME: 9:38 AM/PM

GENERATOR COMPANY  
BANK NAME

REG NAME  
AND NUMBER

## TYPE OF MATERIAL

- ☐ Production Water ☐ Drilling Fluids ☐ Rinsate  
☐ Tank Bottoms ☐ Contaminated Soil ☐ Jet Out  
☐ Solids ☐ BSSW Content: ☐ Call Out

Description:

RRC or API #

VOLUME OF MATERIAL ☐ BBLs ☐ YARD 20 : ☐

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

By order from: TOTALLY SHARP ADVERTISING - 432-586-5401 • www.PrimusSupermarket.com





**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 86531  
(575) 394-2511

**TICKET No. 238842**

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE:

VEHICLE NO:

CHARGE TO:

TIME

AM/PM

GENERATOR COMPANY

MAIN NAME

REG NAME

AND NUMBER

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSGW Content  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description:

RRC or API #

VOLUME OF MATERIAL 1 BBLs

YARD

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Act #1

Pink - Transporter

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**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 86531  
(575) 394-2511

**TICKET No. 238830**

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE:

VEHICLE NO:

CHARGE TO:

TIME

AM/PM

GENERATOR COMPANY

MAIN NAME

REG NAME

AND NUMBER

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSGW Content  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description:

RRC or API #

VOLUME OF MATERIAL 1 BBLs

YARD

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Act #1

Pink - Transporter

We warrant from: TOTALLY SHAWM ADVERTISING - 432-386-5401 • www.PromoSignMarket.com





**SUNDANCE SERVICES, Inc.**  
P.O. Box 1737 Eunice, New Mexico 88331  
(575) 394-2511

**TICKET No. 238812**

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: Environment Battery

TRANSPORTER COMPANY: Nature's Subline

DATE: 3/11/13 VEHICLE NO: 51024 TIME: 1:28 AM/PM

CHARGE TO: SUG REG NAME AND NUMBER: 390-7595

**TYPE OF MATERIAL**

- ☐ Production Water
- ☐ Tank Bottoms
- ☐ Solids
- ☐ Drilling Fluids
- ☒ Contaminated Soil
- ☐ BSSW Content:
- ☐ Rinsate
- ☐ Jet Out
- ☐ Call Out

Description: oil

RRC or API #

VOLUME OF MATERIAL: 1 BBLs. 13 YARD 20 : 1 C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, 40 U.S.C. § 6901, 40 U.S.C. § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]

FACILITY REPRESENTATIVE: [Signature]

White - Sundance    Canary - Sundance Acct #1    Pink - Transporter

Per order form: TOSALLY SHAMP ADVERTISING - 432 586 5481 - www.PromotionalMarket.com



**SUNDANCE SERVICES, Inc.**  
P.O. Box 1737 Eunice, New Mexico 88331  
(575) 394-2511

**TICKET No. 238805**

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: Environment Battery

TRANSPORTER COMPANY: Nature's Subline

DATE: 3/11/13 VEHICLE NO: 51024 TIME: 1:00 AM/PM

CHARGE TO: SUG REG NAME AND NUMBER: 390-7595

**TYPE OF MATERIAL**

- ☐ Production Water
- ☐ Tank Bottoms
- ☐ Solids
- ☐ Drilling Fluids
- ☒ Contaminated Soil
- ☐ BSSW Content:
- ☐ Rinsate
- ☐ Jet Out
- ☐ Call Out

Description: oil

RRC or API #

VOLUME OF MATERIAL: 1 BBLs. 13 YARD 20 : 1 C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, 40 U.S.C. § 6901, 40 U.S.C. § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]

FACILITY REPRESENTATIVE: [Signature]

White - Sundance    Canary - Sundance Acct #1    Pink - Transporter

Per order form: TOSALLY SHAMP ADVERTISING - 432 586 5481 - www.PromotionalMarket.com





**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 86531  
(575) 394-2511

**TICKET No. 238791**

LEASE OPERATOR/SHIPPER/COMPANY: *SUG*

LEASE NAME: *Elmwood Tank Battery*

TRANSPORTER COMPANY: *Elmwood Tank Battery*

DATE: *8-11-13* VEHICLE NO: *25*

CHARGE TO: *SUG*

REG. NAME AND NUMBER

*310-7595*

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content:  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description:

RR or API #

VOLUME OF MATERIAL : *1* YARD *20* : *1*

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *Am*

FACILITY REPRESENTATIVE: *Am*

White - Sundance Canary - Sundance Act #1 Pink - Transporter

See order form TOTALLY SHARP ADVERTISING • 432-586-5481 • www.PromoSignMarket.com



**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 86531  
(575) 394-2511

**TICKET No. 238839**

LEASE OPERATOR/SHIPPER/COMPANY: *SUG*

LEASE NAME: *Elmwood Tank Battery*

TRANSPORTER COMPANY: *Elmwood Tank Battery*

DATE: *8-11-13* VEHICLE NO: *25*

CHARGE TO: *SUG*

REG. NAME AND NUMBER

*310-7595*

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content:  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description:

RR or API #

VOLUME OF MATERIAL : *1* YARD *20* : *1*

C-133#

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DRIVER: *Am*

FACILITY REPRESENTATIVE: *Am*

White - Sundance Canary - Sundance Act #1 Pink - Transporter

See order form TOTALLY SHARP ADVERTISING • 432-586-5481 • www.PromoSignMarket.com





**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 El Centro, New Mexico 88231  
(575) 394-2511

TICKET No. **238824**

LEASE OPERATOR/SHIPPER/COMPANY: *Sundance Tank Battery*

LEASE NAME: *Sundance Tank Battery*

TRANSPORTER COMPANY: *Sundance Tank Battery*

DATE: *3-11-13*

VEHICLE NO: *883*

TIME: *12:24 AM*

AM/PM

CHARGE TO: *810*

FIG NAME  
AND NUMBER

*300-745*

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSAW Content:  
☐ Rinstate  
☐ Jet Out  
☐ Call Out

Description:

RRC or API #

VOLUME OF MATERIAL

IBBLS

:

YARD

00

C-133#

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Act #1

Pink - Transporter

For order form: TOTALLY SHARP ADVERTISING - 432-586-5401 • www.PymedSupplies.com



**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 El Centro, New Mexico 88231  
(575) 394-2511

TICKET No. **238841**

LEASE OPERATOR/SHIPPER/COMPANY: *Sundance Tank Battery*

LEASE NAME: *Sundance Tank Battery*

TRANSPORTER COMPANY: *Sundance Tank Battery*

DATE: *3-11-13*

VEHICLE NO: *883*

TIME: *9:03 AM*

AM/PM

CHARGE TO: *810*

FIG NAME  
AND NUMBER

*300-745*

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSAW Content:  
☐ Rinstate  
☐ Jet Out  
☐ Call Out

Description:

RRC or API #

VOLUME OF MATERIAL

IBBLS

:

YARD

00

C-133#

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Act #1

Pink - Transporter

For order form: TOTALLY SHARP ADVERTISING - 432-586-5401 • www.PymedSupplies.com





**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eureka, New Mexico 86231  
(575) 394-2511

TICKET No. **238826**

LEASE OPERATOR/SHIPPER/COMPANY: *SUN*

LEASE NAME: *Complete Tank Battery*

TRANSPORTER COMPANY: *Winterspring*

DATE: *8-11-13*

VEHICLE NO: *890-7515*

CHARGE TO: *SUN*

TIME: *10:30 AM/PM*

GENERATOR COMPANY  
MANT NAME

REG NAME  
AND NUMBER

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSSAW Content: *0/D*  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description:

RR or API #

VOLUME OF MATERIAL ☐ TBLS. ☐ YARD *30* ☐

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

*Steve Aguilar*

FACILITY REPRESENTATIVE:

*Winterspring*

White - Sundance

Canary - Sundance Act #1

Pink - Transporter

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**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eureka, New Mexico 86231  
(575) 394-2511

TICKET No. **238807**

LEASE OPERATOR/SHIPPER/COMPANY: *SUN*

LEASE NAME: *Complete Tank Battery*

TRANSPORTER COMPANY: *Winterspring*

DATE: *8-11-13*

VEHICLE NO: *890-7515*

CHARGE TO: *SUN*

TIME: *11:10 AM/PM*

GENERATOR COMPANY  
MANT NAME

REG NAME  
AND NUMBER

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSSAW Content: *0/D*  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description:

RR or API #

VOLUME OF MATERIAL ☐ TBLS. ☐ YARD *20* ☐

C-133#

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DRIVER:

*Steve Aguilar*

FACILITY REPRESENTATIVE:

*Winterspring*

White - Sundance

Canary - Sundance Act #1

Pink - Transporter

We deliver from: TOTALLY SHARP ADVERTISING - 432-586-5401 • www.PromoSignsMarket.com





**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

**TICKET No. 238790**

LEASE OPERATOR/SHIPPER/COMPANY: *SUG*

LEASE NAME: *White Tank Battery*

TRANSPORTER COMPANY: *White Tank Battery*

DATE: *5-11-13* VEHICLE NO: *60*

CHARGE TO: *SUG*

GENERATOR COMPANY  
MAN'S NAME

TIME *2:15* AM/PM

REG. NAME  
AND NUMBER

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☐ Contaminated Soil  
☐ BS&W Content:  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description:

RRC or API #

VOLUME OF MATERIAL | BBLs, : | YARD : |

C-133#

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Act #1

Pink - Transporter

We order from TOTALLY SHIPPER ADVISORY: 412-390-5401 • www.promosupermarket.com



**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

**TICKET No. 238642**

LEASE OPERATOR/SHIPPER/COMPANY: *SUG*

LEASE NAME: *White Tank Battery*

TRANSPORTER COMPANY: *White Tank Battery*

DATE: *5-8-13* VEHICLE NO: *60*

CHARGE TO: *SUG*

GENERATOR COMPANY  
MAN'S NAME

TIME *2:15* AM/PM

REG. NAME  
AND NUMBER

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☐ Contaminated Soil  
☐ BS&W Content:  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description:

RRC or API #

VOLUME OF MATERIAL | BBLs, : | YARD : |

C-133#

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Act #1

Pink - Transporter

We order from TOTALLY SHIPPER ADVISORY: 412-390-5401 • www.promosupermarket.com



**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511TICKET No. **238638**LEASE OPERATOR/SHIPPER/COMPANY: **SLIG**LEASE NAME: **Eunice 7/14/14**TRANSPORTER COMPANY: **Plattinez Truck**DATE: **3-8-13** VEHICLE NO: **250**TIME: **2:35 AM/PM**CHARGE TO: **SLIG**

INC NAME AND NUMBER

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content:  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: **old**

RRIC or API #

VOLUME OF MATERIAL | BBLs

: **X** YARD **20**

C-133#

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DRIVER: **Steve Ariz**

(SIGNATURE)

FACILITY REPRESENTATIVE: **J. Sla Cruz**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511TICKET No. **238641**LEASE OPERATOR/SHIPPER/COMPANY: **SLIG**LEASE NAME: **Eunice 7/14/14**TRANSPORTER COMPANY: **Plattinez Truck**DATE: **3-8-13** VEHICLE NO: **29**TIME: **2:44 AM/PM**CHARGE TO: **SLIG**

INC NAME AND NUMBER

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content:  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: **old**

RRIC or API #

VOLUME OF MATERIAL | BBLs

: **X** YARD **20**

C-133#

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DRIVER: **Steve Ariz**

(SIGNATURE)

FACILITY REPRESENTATIVE: **J. Sla Cruz**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

For order forms, TDSNALLY 24-hour ADVERTISING - 432-304-7461 • www.Promosupermarket.com





**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. **238543**

LEASE OPERATOR/SHIPPER/COMPANY: **SUG**

LEASE NAME: **Eunice Tank Battery**

TRANSPORTER COMPANY: **Plaza Truck**

DATE: **3-8-13** VEHICLE NO: **25**

TIME: **5:00 AM/PM**

GENERATOR COMPANY  
MAN'S NAME

REG NAME  
AND NUMBER

CHARGE TO: **SUG**

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: **010**

RRC or API #

VOLUME OF MATERIAL | BBLs. : **14** YARD **26** : |

C-133#

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DRIVER: **AM**

(SIGNATURE)

FACILITY REPRESENTATIVE: **A. Stanley**

(SIGNATURE)

White - Sundance

Canary - Sundance Act #1

Pink - Transporter

By e-mail to: [TOTALLY\\_SHARP\\_AGENCY@SUNDANCE.COM](mailto:TOTALLY_SHARP_AGENCY@SUNDANCE.COM) • 505-266-2461 • [www.PromotingSmartMarket.com](http://www.PromotingSmartMarket.com)



**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. **238574**

LEASE OPERATOR/SHIPPER/COMPANY: **SUG**

LEASE NAME: **Eunice Tank Battery**

TRANSPORTER COMPANY: **Plaza Truck**

DATE: **3-8-13** VEHICLE NO: **25**

TIME: **9:58 AM/PM**

GENERATOR COMPANY  
MAN'S NAME

REG NAME  
AND NUMBER

CHARGE TO: **SUG**

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: **010**

RRC or API #

VOLUME OF MATERIAL | BBLs. : **14** YARD **26** : |

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: **AM**

(SIGNATURE)

FACILITY REPRESENTATIVE: **A. Stanley**

(SIGNATURE)

White - Sundance

Canary - Sundance Act #1

Pink - Transporter

By e-mail to: [TOTALLY\\_SHARP\\_AGENCY@SUNDANCE.COM](mailto:TOTALLY_SHARP_AGENCY@SUNDANCE.COM) • 505-266-2461 • [www.PromotingSmartMarket.com](http://www.PromotingSmartMarket.com)





**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

**TICKET No. 238601**

LEASE OPERATOR/SHIPPER/COMPANY: SUNG

LEASE NAME: Eunice T1B14

TRANSPORTER COMPANY: Wartburg Truck TIME 11:30 AM/PM

DATE: 3/13 VEHICLE NO: 350

CHARGE TO: SUNG REG NAME AND NUMBER: P. Stanley

**TYPE OF MATERIAL**

☐ Production Water  
☐ Tank Bottoms  
☐ Solids

☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content:

☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: oil

RRC or API #

VOLUME OF MATERIAL 1 BBLs. : YARD 26 : ( )

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: Am

FACILITY REPRESENTATIVE: P. Stanley

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Reg. or other from: TCMAL17 30400P 40201010000 - 432 200-2401 - www.PrimeTimeLogistics.com



**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

**TICKET No. 238620**

LEASE OPERATOR/SHIPPER/COMPANY: SUNG

LEASE NAME: Eunice T1B14

TRANSPORTER COMPANY: Wartburg Truck TIME 11:07 AM/PM

DATE: 3/13 VEHICLE NO: 350

CHARGE TO: SUNG REG NAME AND NUMBER: P. Stanley

**TYPE OF MATERIAL**

☐ Production Water  
☐ Tank Bottoms  
☐ Solids

☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content:

☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: oil

RRC or API #

VOLUME OF MATERIAL 1 BBLs. : YARD 26 : ( )

C-133#

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DRIVER: Am

FACILITY REPRESENTATIVE: P. Stanley

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Reg. or other from: TCMAL17 30400P 40201010000 - 432 200-2401 - www.PrimeTimeLogistics.com



**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 86231  
(575) 394-2511**TICKET No. 238545**LEASE OPERATOR/SHIPPER/COMPANY: SILGLEASE NAME: Elmington Tank BatteryTRANSPORTER COMPANY: Blattinez TruckDATE: 3-8-13 VEHICLE NO: 6TIME: 8:27 AM/PMGENERATOR COMPANY NAME: C. StanleyCHARGE TO: SILG

PIC NAME AND NUMBER

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSAW Content:  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: OLD

RRC or API #

C-133#

VOLUME OF MATERIAL 1 BBLs.

:

X YARD 20

:

11

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

By order from: TOTALLY SUNDANCE SERVICES, INC. 402/651-1000 • 402/340-1401 • www.sundance-services.com

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 86231  
(575) 394-2511**TICKET No. 238580**LEASE OPERATOR/SHIPPER/COMPANY: SILGLEASE NAME: Elmington Tank BatteryTRANSPORTER COMPANY: Blattinez TruckDATE: 3-8-13 VEHICLE NO: 6TIME: 7:19 AM/PMGENERATOR COMPANY NAME: C. StanleyCHARGE TO: SILG

PIC NAME AND NUMBER

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSAW Content:  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: OLD

RRC or API #

C-133#

VOLUME OF MATERIAL 1 BBLs.

:

X YARD 20

:

11

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

By order from: TOTALLY SUNDANCE SERVICES, INC. 402/651-1000 • 402/340-1401 • www.sundance-services.com



**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231  
(505) 394-2511TICKET No. **238604**LEASE OPERATOR/SHIPPER/COMPANY: **SUG**LEASE NAME: **Eunice TIBAY**TRANSPORTER COMPANY: **Martinez**DATE: **3-8-13** VEHICLE NO: **6**TIME: **11:37 AM/PM**GENERATOR COMPANY  
MARK'S NAMEREG NAME  
AND NUMBERCHARGE TO: **SUG****TYPE OF MATERIAL**☐ Production Water  
☐ Tank Bottoms  
☐ Solids☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content:☐ Rinsate  
☐ Jet Out  
☐ Call OutDescription: **old**

RRC or API #

VOLUME OF MATERIAL | BBLs. : **X** YARD **20** : |

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: **(Signature)**FACILITY REPRESENTATIVE: **(Signature)**

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

See order form: TOTALLY OILFIELD ADVERTISING - 402-586-5461 - www.Primisys.com/mark

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231  
(505) 394-2511TICKET No. **238626**LEASE OPERATOR/SHIPPER/COMPANY: **SUG**LEASE NAME: **Eunice TIBAY**TRANSPORTER COMPANY: **Martinez Truck**DATE: **3-8-13** VEHICLE NO: **6**TIME: **1:16 AM/PM**GENERATOR COMPANY  
MARK'S NAMEREG NAME  
AND NUMBERCHARGE TO: **SUG****TYPE OF MATERIAL**☐ Production Water  
☐ Tank Bottoms  
☐ Solids☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content:☐ Rinsate  
☐ Jet Out  
☐ Call OutDescription: **old**

RRC or API #

VOLUME OF MATERIAL | BBLs. : **X** YARD **20** : |

C-133#

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DRIVER: **(Signature)**FACILITY REPRESENTATIVE: **(Signature)**

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

See order form: TOTALLY OILFIELD ADVERTISING - 402-586-5461 - www.Primisys.com/mark





**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

**TICKET No. 238544**

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: Elimint Tank Battery

TRANSPORTER COMPANY: Martinez Truck

DATE: 3-8-13 VEHICLE NO: 29

CHARGE TO: SUG

GENERATOR COMPANY

MARK NAME

RC NAME AND NUMBER

TIME 5:26 AM

BY O. Stanley

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSSAW Content  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description:

RR or API #

VOLUME OF MATERIAL | | BBLs. : X YARD 26 : | |

C-133#

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DRIVER:

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

By order of: Steve Aguilar (SIGNATURE)  
P.O. Box 1737 Eunice, NM 88231 (575) 394-2511 • www.PromotionalSignatures.com



**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

**TICKET No. 238578**

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: Elimint Tank Battery

TRANSPORTER COMPANY: Martinez Truck

DATE: 3-8-13 VEHICLE NO: 29

CHARGE TO: SUG

GENERATOR COMPANY

MARK NAME

RC NAME AND NUMBER

TIME 10:03 AM

BY O. Stanley

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSSAW Content  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description:

RR or API #

VOLUME OF MATERIAL | | BBLs. : X YARD 26 : | |

C-133#

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DRIVER:

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

By order of: Steve Aguilar (SIGNATURE)  
P.O. Box 1737 Eunice, NM 88231 (575) 394-2511 • www.PromotionalSignatures.com



**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88331  
(575) 394-2511**TICKET No. 238602**LEASE OPERATOR/SHIPPER/COMPANY: *SUG*LEASE NAME: *Eumoit 7/18/14*TRANSPORTER COMPANY: *Martinez Truck*DATE: *3-8-13* VEHICLE NO: *29*TIME: *1:34 AM/PM*GENERATOR COMPANY  
MARTINEZ TRUCKDATE: *3-8-13* VEHICLE NO: *29*CHARGE TO: *SUG*RC NAME  
AND NUMBER**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: *old*

RR or API #

VOLUME OF MATERIAL | BBLs. : *1* YARD *26* : *1*

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

*Steve Aguilar*  
(SIGNATURE)

FACILITY REPRESENTATIVE:

*A. Blazquez*  
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

New Mexico Form TOSALLY 99A00P ADVERTISED - 432-298-2461 • www.promotingtransport.com

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88331  
(575) 394-2511**TICKET No. 238625**LEASE OPERATOR/SHIPPER/COMPANY: *SUG*LEASE NAME: *Eumoit 7/18/14*TRANSPORTER COMPANY: *Martinez Truck*DATE: *3-8-13* VEHICLE NO: *29*TIME: *1:14 AM/PM*GENERATOR COMPANY  
MARTINEZ TRUCKDATE: *3-8-13* VEHICLE NO: *29*CHARGE TO: *SUG*RC NAME  
AND NUMBER**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: *old*

RR or API #

VOLUME OF MATERIAL | BBLs. : *1* YARD *20* : *1*

C-133#

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DRIVER:

*Steve Aguilar*  
(SIGNATURE)

FACILITY REPRESENTATIVE:

*A. Blazquez*  
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

New Mexico Form TOSALLY 99A00P ADVERTISED - 432-298-2461 • www.promotingtransport.com





# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. **238344**

LEASE OPERATOR/SHIPPER/COMPANY: **SUG**

LEASE NAME: **Eumant Tank Battery**

TRANSPORTER COMPANY: **Gladiator Truck**

DATE: **3-7-13** VEHICLE NO: **25**

CHARGE TO: **SUG**

GENERATOR COMPANY  
MARKET NAME  
BIO NAME  
AND NUMBER

TIME **9:05 AM/PM**

## TYPE OF MATERIAL

- ☐ Production Water
- ☐ Drilling Fluids
- ☐ Tank Bottoms
- ☒ Contaminated Soil
- ☐ Solids
- ☐ BSAW Content:
- ☐ Rinsate
- ☐ Jet Out
- ☐ Call Out

Description: **old**

RRC or API #

VOLUME OF MATERIAL ☐ BBLs ☒ YARD **20** ☐

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: **Am**

(SIGNATURE)

FACILITY REPRESENTATIVE: **A. Sha Cruz**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

The number from TOTALLY SHARP ACCOUNTING - 432-286-5461 - www.transportersharps.com



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. **238368**

LEASE OPERATOR/SHIPPER/COMPANY: **SUG**

LEASE NAME: **Eumant Tank Battery**

TRANSPORTER COMPANY: **Gladiator Truck**

DATE: **3-7-13** VEHICLE NO: **25**

CHARGE TO: **SUG**

GENERATOR COMPANY  
MARKET NAME  
BIO NAME  
AND NUMBER

TIME **10:13 AM/PM**

## TYPE OF MATERIAL

- ☐ Production Water
- ☐ Drilling Fluids
- ☐ Tank Bottoms
- ☒ Contaminated Soil
- ☐ Solids
- ☐ BSAW Content:
- ☐ Rinsate
- ☐ Jet Out
- ☐ Call Out

Description: **old**

RRC or API #

VOLUME OF MATERIAL ☐ BBLs ☒ YARD **20** ☐

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: **Am**

(SIGNATURE)

FACILITY REPRESENTATIVE: **A. Sha Cruz**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

The number from TOTALLY SHARP ACCOUNTING - 432-286-5461 - www.transportersharps.com





**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

**TICKET No. 238408**

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: Eunice Tank Battery

TRANSPORTER COMPANY: Waltinez Truck

DATE: 3-7-13 VEHICLE NO: 25

TIME: 12:25 PM

GENERATOR COMPANY  
MANY NAME

REG NAME  
AND NUMBER

CHARGE TO: 311G

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSAW Content:  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: OLD

RRC or API #

VOLUME OF MATERIAL ☐ BBLs. ☒ YARD 20 : ☐

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: Ar

FACILITY REPRESENTATIVE: Ar

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

By order: From: TOTALLY SHARP ACQUISITION - 432-586-5481 - www.FromTotallySharp.com



**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

**TICKET No. 238441**

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: Eunice Tank Battery

TRANSPORTER COMPANY: Waltinez Truck

DATE: 3-7-13 VEHICLE NO: 25

TIME: 2:01 AM PM

GENERATOR COMPANY  
MANY NAME

REG NAME  
AND NUMBER

CHARGE TO: 311G

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSAW Content:  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: OLD

RRC or API #

VOLUME OF MATERIAL ☐ BBLs. ☒ YARD 20 : ☐

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: Ar

FACILITY REPRESENTATIVE: Ar

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

By order: From: TOTALLY SHARP ACQUISITION - 432-586-5481 - www.FromTotallySharp.com



**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511**TICKET No. 238478**LEASE OPERATOR/SHIPPER/COMPANY: *SUG*LEASE NAME: *Eunice Tank Battery*TRANSPORTER COMPANY: *Martinez Trucking*DATE: *3-7-13* VEHICLE NO: *25*TIME: *3:34 AM* / *PM*GENERATOR COMPANY  
MARKS NAME: *A. Stanley*CHARGE TO: *SUG*REG NAME  
AND NUMBER**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description:

RIC or API #

C-133#

VOLUME OF MATERIAL

| | BBLs.

: *1* YARD *30* :

| |

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

No other forms TOTALLY SHARED ACCEPTANCE - 432-586-5401 • www.PromoSignatures.com

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511**TICKET No. 238350**LEASE OPERATOR/SHIPPER/COMPANY: *SUG*LEASE NAME: *Eunice Tank Battery*TRANSPORTER COMPANY: *Martinez Trucking*DATE: *3-7-13* VEHICLE NO: *29*TIME: *9:16 AM* / *PM*GENERATOR COMPANY  
MARKS NAME: *A. Stanley*CHARGE TO: *SUG*REG NAME  
AND NUMBER**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description:

RIC or API #

C-133#

VOLUME OF MATERIAL

| | BBLs.

: *1* YARD *21* :

| |

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

No other forms TOTALLY SHARED ACCEPTANCE - 432-586-5401 • www.PromoSignatures.com





**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

**TICKET No. 238374**

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: Eunice Tank Battery

TRANSPORTER COMPANY: Quintero Truck

DATE: 3-7-13 VEHICLE NO: 29

CHARGE TO: SUG

REG NAME AND NUMBER

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content

Description:

RRIC or API #

VOLUME OF MATERIAL : 1 BBLs : 20 YARD : 1

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

Steve Aguilar

FACILITY REPRESENTATIVE:

A. S. La Cruz

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Per order from: TOTALUS SHIPPER 402-251-1300 • 432-289-1461 • www.photosignatures.com



**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

**TICKET No. 238404**

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: Eunice Tank Battery

TRANSPORTER COMPANY: Quintero Truck

DATE: 3-7-13 VEHICLE NO: 29

CHARGE TO: SUG

REG NAME AND NUMBER

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BS&W Content

Description:

RRIC or API #

VOLUME OF MATERIAL : 1 BBLs : 20 YARD : 1

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

Steve Aguilar

FACILITY REPRESENTATIVE:

A. S. La Cruz

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Per order from: TOTALUS SHIPPER 402-251-1300 • 432-289-1461 • www.photosignatures.com





**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

**TICKET No. 238435**

LEASE OPERATOR/SHIPPER/COMPANY: SILG

LEASE NAME: Elimout Tank Battery

TRANSPORTER COMPANY: Martinez Truck

DATE: 3-7-13 VEHICLE NO: 29 TIME: 1:17 AM/PM

CHARGE TO: SILG REG NAME AND NUMBER: P. Stanley

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSSW Content:  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: old

RRC or API #

VOLUME OF MATERIAL 1 BBLs. : 20 YARD 20 : 1

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: P. Stanley

FACILITY REPRESENTATIVE: P. Stanley

White - Sundance Canary - Sundance Act #1 Pink - Transporter

By order of: TOTALITY SHARP ADVERTISING - 432-980-5461 • www.PromotionalMarket.com



**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

**TICKET No. 238472**

LEASE OPERATOR/SHIPPER/COMPANY: SILG

LEASE NAME: Elimout Tank Battery

TRANSPORTER COMPANY: Martinez Truck TIME: 3:23 AM/PM

DATE: 3-7-13 VEHICLE NO: 29 REG NAME AND NUMBER: P. Stanley

CHARGE TO: SILG

**TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSSW Content:  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: old

RRC or API #

VOLUME OF MATERIAL 1 BBLs. : 20 YARD 20 : 1

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: P. Stanley

FACILITY REPRESENTATIVE: P. Stanley

White - Sundance Canary - Sundance Act #1 Pink - Transporter

By order of: TOTALITY SHARP ADVERTISING - 432-980-5461 • www.PromotionalMarket.com





# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(505) 394-2511

TICKET No. **238346**

LEASE OPERATOR/SHIPPER/COMPANY: **SUG**

LEASE NAME: **Eunice Tank Battery**

TRANSPORTER COMPANY: **Martinez Truck**

DATE: **3-7-13** VEHICLE NO: **6**

CHARGE TO: **SUG**

REG NAME AND NUMBER

TIME **9:10 AM/PM**

GENERATION COMPANY NAME

DATE: **3-7-13** VEHICLE NO: **6**

REG NAME AND NUMBER

## TYPE OF MATERIAL

- ☐ Production Water
- ☐ Tank Bottoms
- ☐ Solids
- ☐ Drilling Fluids
- ☒ Contaminated Soil
- ☐ BSAW Content:
- ☐ Rinsate
- ☐ Jet Out
- ☐ Call Out

Description:

RR or API #

VOLUME OF MATERIAL **1** TBLS.

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

FACILITY REPRESENTATIVE:

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

No order from: TOLLFREE 800-451-1000 • 402 346 5401 • www.Promag.com



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(505) 394-2511

TICKET No. **238371**

LEASE OPERATOR/SHIPPER/COMPANY: **SUG**

LEASE NAME: **Eunice Tank Battery**

TRANSPORTER COMPANY: **Martinez Truck**

DATE: **3-7-13** VEHICLE NO: **6**

CHARGE TO: **SUG**

REG NAME AND NUMBER

TIME **12:44 AM/PM**

GENERATION COMPANY NAME

DATE: **3-7-13** VEHICLE NO: **6**

REG NAME AND NUMBER

## TYPE OF MATERIAL

- ☐ Production Water
- ☐ Tank Bottoms
- ☐ Solids
- ☐ Drilling Fluids
- ☒ Contaminated Soil
- ☐ BSAW Content:
- ☐ Rinsate
- ☐ Jet Out
- ☐ Call Out

Description:

RR or API #

VOLUME OF MATERIAL **1** TBLS.

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

FACILITY REPRESENTATIVE:

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

No order from: TOLLFREE 800-451-1000 • 402 346 5401 • www.Promag.com



**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511**TICKET No. 238407**LEASE OPERATOR/SHIPPER/COMPANY: *SIUG*LEASE NAME: *Eumogot Tank Battery*TRANSPORTER COMPANY: *Matinez Truck*DATE: *3-7-13* VEHICLE NO: *6* TIME: *12:17 AM/PM*CHARGE TO: *SIUG* REG NAME AND NUMBER: *A. Stanley***TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSS&W Content  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: *old*

RRC or API #

VOLUME OF MATERIAL : *1* YARD : *20* : *1*

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *(Signature)*FACILITY REPRESENTATIVE: *(Signature)*White - Sundance  
Canary - Sundance Acct #1  
Pink - Transporter

By order From: TOTALLY SUMMER ADVERTISING • 432-586-1461 • www.PromoSigns.com

**SUNDANCE SERVICES, Inc.**P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511**TICKET No. 238439**LEASE OPERATOR/SHIPPER/COMPANY: *SIUG*LEASE NAME: *Eumogot Tank Battery*TRANSPORTER COMPANY: *Matinez Truck*DATE: *3-7-13* VEHICLE NO: *6* TIME: *1:59 AM/PM*CHARGE TO: *SIUG* REG NAME AND NUMBER: *A. Stanley***TYPE OF MATERIAL**

- ☐ Production Water  
☐ Tank Bottoms  
☐ Solids  
☐ Drilling Fluids  
☒ Contaminated Soil  
☐ BSS&W Content  
☐ Rinsate  
☐ Jet Out  
☐ Call Out

Description: *old*

RRC or API #

VOLUME OF MATERIAL : *1* YARD : *20* : *1*

C-133#

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER: *(Signature)*FACILITY REPRESENTATIVE: *(Signature)*White - Sundance  
Canary - Sundance Acct #1  
Pink - Transporter

By order From: TOTALLY SUMMER ADVERTISING • 432-586-1461 • www.PromoSigns.com





**SUNDANCE SERVICES, Inc.**

P.O. Box 1737 Eunice, New Mexico 88231  
(505) 394-2511

**TICKET No. 238475**

LEASE OPERATOR/SHIPPER/COMPANY: 511G

LEASE NAME: Euphrat Tank Battery

TRANSPORTER COMPANY: Martinez Truck

DATE: 3-7-13 VEHICLE NO: 6

CHARGE TO: 511G

TIME: 3:29 PM

GENERATOR COMPANY  
AGENT NAME: P. Stanley

REG. NAME  
AND NUMBER

**TYPE OF MATERIAL**

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BSSAW Content:               | <input type="checkbox"/> Call Out |

Description:

oil

RR or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs

1 YARD 26 ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER:

(Signature)

FACILITY REPRESENTATIVE:

(Signature)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

See website for more: [www.sundance.com](http://www.sundance.com) 1-800-394-2511 • 405-394-2511 • [www.sundance.com](http://www.sundance.com)



Manifest #

SOUTH MONUMENT SURFACE WASTE FACILITY  
LANDFARM - DIRT SALES

(575) 392-1030 WORK (575) 390-3665 CELL (575) 391-8391 HOME

## LEASE OPERATOR

Southern Union Gas Services  
801 S Loop 464 Marshall, TX 79706

## ORIGINATING LOCATION

- Ecomat Tank Drilling  
L.H. Sec 30 T205 R17E

## TRANSPORTER NAME &amp; ADDRESS

Asia Environmental

## DESCRIPTION OF WASTE

Non-Hazardous Hydrocarbons

## QUANTITY

40 YDS

## FACILITY CONTACT:

## SIGNATURE OF CONTACT

DATE

## CELL NUMBER MATERIAL PLACED IN:

C2

## NAME OF TRANSPORTER (DRIVER):

Lolo West

## SIGNATURE OF DRIVER

3/22/01

DATE

## DISPOSAL SITE

South Monument Surface Waste Facility

P. O. Box 418

Hobbs, NM 88241-0418

575-390-3665 CELL

575-391-8391 HOME

## PERMIT NM-01-0032

N/2 NE/4 S25/T205/R36E

575-390-3665 CELL

575-391-8391 HOME

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste is: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C regulations; and not mixed with non-exempt waste."

## FACILITY REPRESENTATIVE

DATE

Manifest #

SOUTH MONUMENT SURFACE WASTE FACILITY  
LANDFARM - DIRT SALES

(575) 392-1030 WORK (575) 390-3665 CELL (575) 391-8391 HOME

## LEASE OPERATOR

Southern Union Gas Services  
801 S Loop 464 Marshall, TX 79706

## ORIGINATING LOCATION

Ecomat Tank Drilling  
L.H. Sec 30 T205 R17E

## TRANSPORTER NAME &amp; ADDRESS

Asia Environmental

## DESCRIPTION OF WASTE

Non-Hazardous Hydrocarbons

## QUANTITY

11 M @ 12 YDS

## FACILITY CONTACT:

## SIGNATURE OF CONTACT

DATE

## CELL NUMBER MATERIAL PLACED IN:

C2

## NAME OF TRANSPORTER (DRIVER):

Lolo West

## SIGNATURE OF DRIVER

3/20/01

DATE

## DISPOSAL SITE

South Monument Surface Waste Facility

P. O. Box 418

Hobbs, NM 88241-0418

575-390-3665 CELL

575-391-8391 HOME

## PERMIT NM-01-0032

N/2 NE/4 S25/T205/R36E

575-390-3665 CELL

575-391-8391 HOME

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## FACILITY REPRESENTATIVE

DATE



Manifest #

## SOUTH MONUMENT SURFACE WASTE FACILITY

LANDFARM - DIRT SALES

(575)390-1050 WORK (575)390-3665 CELL (575)391-8391 HOME

## LEASE OPERATOR

Southern Union Gas Services  
801 S Loop 464 Monahan, TX 75756

## ORIGINATING LOCATION

Furness Tank Battery  
LA N 54136 7205 R20E

## TRANSPORTER NAME &amp; ADDRESS

Basin Environmental Services

## DESCRIPTION OF WASTE

Non-Hazardous Hydrocarbons

## QUANTITY

192 YDS

## FACILITY CONTACT:

## SIGNATURE OF CONTACT

DATE

## CELL NUMBER MATERIAL PLACED IN:

C5

## NAME OF TRANSPORTER (DRIVER):

## SIGNATURE OF DRIVER

DATE 2/12/13

## DISPOSAL SITE

South Monument Surface Waste Facility  
P. O. Box 418  
Hobbs, NM 88241-0418  
S25 T20S R36E N/2 NE/4PERMIT #NM-01-0032  
N/2 NE/4 S25/T20S/R36E  
575-390-3665 CELL  
575-391-8391 HOME

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## FACILITY REPRESENTATIVE

DATE

Manifest #

## SOUTH MONUMENT SURFACE WASTE FACILITY

LANDFARM - DIRT SALES

(575)390-1050 WORK (575)390-3665 CELL (575)391-8391 HOME

## LEASE OPERATOR

Southern Union Gas Services  
801 S Loop 464 Monahan, TX 75756

## ORIGINATING LOCATION

Furness Tank Battery  
LA N 54136 7205 R20E

## TRANSPORTER NAME &amp; ADDRESS

## DESCRIPTION OF WASTE

Non-Hazardous Hydrocarbons

## QUANTITY

234 @ 12 YDS  
276 Yds

## FACILITY CONTACT:

## SIGNATURE OF CONTACT

DATE

## CELL NUMBER MATERIAL PLACED IN:

C2

## NAME OF TRANSPORTER (DRIVER):

## SIGNATURE OF DRIVER

DATE 2/12/2013

## DISPOSAL SITE

South Monument Surface Waste Facility  
P. O. Box 418  
Hobbs, NM 88241-0418  
S25 T20S R36E N/2 NE/4PERMIT #NM-01-0032  
N/2 NE/4 S25/T20S/R36E  
575-390-3665 CELL  
575-391-8391 HOME

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C regulations; and not mixed with non-exempt waste."

## FACILITY REPRESENTATIVE

DATE



Manifest #

**SOUTH MONUMENT SURFACE WASTE FACILITY**  
**LANDFARM - DIRT SALES**  
 (575) 392-1050 WORK (575) 390-3665 CELL (575) 391-8391 HOME

LEASE OPERATOR  
 Southern Union Gas Services  
 801 S Loop 464 Marshfield TX 79756

ORIGINATING LOCATION

Evant Tank Battery  
 Lot N Sec 30 T203 R77E

TRANSPORTER NAME & ADDRESS

Basin Environmental

DESCRIPTION OF WASTE

Non-Hazardous Hydrocarbons

QUANTITY

21 101 12 4 YDS  
 252 4.3

FACILITY CONTACT:

SIGNATURE OF CONTACT

DATE

CELL NUMBER MATERIAL PLACED IN:

C 2

NAME OF TRANSPORTER (DRIVER):

Lesko Mark

SIGNATURE OF DRIVER

DATE

DISPOSAL SITE

South Monument Surface Waste Facility  
 P. O. Box 418  
 Hobbs, NM 88241-0418  
 575 390-3665 CELL  
 575-391-8391 HOME

PERMIT #NM-01-0032  
 N/2 NE/4 S25/T203/R36E  
 575-390-3665 CELL  
 575-391-8391 HOME

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C regulations; and not mixed with non-exempt waste."

FACILITY REPRESENTATIVE

DATE

Manifest #

**SOUTH MONUMENT SURFACE WASTE FACILITY**  
**LANDFARM - DIRT SALES**  
 (575) 392-1050 WORK (575) 390-3665 CELL (575) 391-8391 HOME

LEASE OPERATOR  
 Southern Union Gas Services  
 801 S Loop 464 Marshfield TX 79756

ORIGINATING LOCATION

Evant Tank Battery  
 Lot N Sec 30 T203 R77E

TRANSPORTER NAME & ADDRESS

Basin Environmental

DESCRIPTION OF WASTE

Non-Hazardous Hydrocarbons

QUANTITY

252 YDS

FACILITY CONTACT:

SIGNATURE OF CONTACT

DATE

CELL NUMBER MATERIAL PLACED IN:

C 5

NAME OF TRANSPORTER (DRIVER):

Lesko Mark

SIGNATURE OF DRIVER

DATE

DISPOSAL SITE

South Monument Surface Waste Facility  
 P. O. Box 418  
 Hobbs, NM 88241-0418  
 575 390-3665 CELL  
 575-391-8391 HOME

PERMIT #NM-01-0032  
 N/2 NE/4 S25/T203/R36E  
 575-390-3665 CELL  
 575-391-8391 HOME

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C regulations; and not mixed with non-exempt waste."

FACILITY REPRESENTATIVE

DATE



Manifest #

SOUTH MONUMENT SURFACE WASTE FACILITY  
LANDFARM - DIRT SALES

(575)392-1030 WORK (575)390-3665 CELL (575)391-8391 HOME

## LEASE OPERATOR

Southern Union Gas Services  
801 Sharp 4th Muskogee TX  
79706

## ORIGINATING LOCATION

Exempt Tank 14-1  
Lt. W. State T203 R36E

## TRANSPORTER NAME &amp; ADDRESS

Basis Environmental

## DESCRIPTION OF WASTE

Non-Hazardous Hydrocarbons

## QUANTITY

20 1/2 @ 12 yds  
240 yds total

## FACILITY CONTACT:

## SIGNATURE OF CONTACT

DATE

## CELL NUMBER MATERIAL PLACED IN:

C2

## NAME OF TRANSPORTER (DRIVER):

John Jones

## SIGNATURE OF DRIVER

DATE

## DISPOSAL SITE

South Monument Surface Waste Facility  
P. O. Box 418  
Robbs, NM 88241-0418  
825 T205 R36E N/2 NE/4PERMIT NM-01-0032  
N/2 NE/4 825/T205/R36E  
575-390-3665 CELL  
575-391-8391 HOME

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C regulations; and not mixed with non-exempt waste."

## FACILITY REPRESENTATIVE

DATE

Manifest #

SOUTH MONUMENT SURFACE WASTE FACILITY  
LANDFARM - DIRT SALES

(575)392-1030 WORK (575)390-3665 CELL (575)391-8391 HOME

## LEASE OPERATOR

Southern Union Gas Services  
801 Sharp 4th Muskogee TX  
79706

## ORIGINATING LOCATION

Exempt Tank 14-1  
Lt. W. State T203 R36E

## TRANSPORTER NAME &amp; ADDRESS

Basis Environmental

## DESCRIPTION OF WASTE

Non-Hazardous Hydrocarbons

## QUANTITY

86 yds total

## FACILITY CONTACT:

## SIGNATURE OF CONTACT

DATE

## CELL NUMBER MATERIAL PLACED IN:

Cell # 116

## NAME OF TRANSPORTER (DRIVER):

John Jones

## SIGNATURE OF DRIVER

DATE

## DISPOSAL SITE

South Monument Surface Waste Facility  
P. O. Box 418  
Robbs, NM 88241-0418  
825 T205 R36E N/2 NE/4PERMIT NM-01-0032  
N/2 NE/4 825/T205/R36E  
575-390-3665 CELL  
575-391-8391 HOME

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C regulations; and not mixed with non-exempt waste."

## FACILITY REPRESENTATIVE

DATE



Manifest #

# SOUTH MONUMENT SURFACE WASTE FACILITY

LANDFARM - DIRT SALES

(575) 392-1050 WORK (575) 390-3665 CELL (575) 391-8391 HOME

## LEASE OPERATOR

Southmon Union Gas Services  
Box 5, Loop 464 Monahans, TX 79756

## ORIGINATING LOCATION

EUMONT TANK BATTERY  
LOT N 56090 T105 A37E

## TRANSPORTER NAME &amp; ADDRESS

Aspen Environmental Services

## DESCRIPTION OF WASTE

Non-Hazardous Hydrocarbons

## QUANTITY

318 yds 1014LBS

## FACILITY CONTACT:

## SIGNATURE OF CONTACT

DATE

## CELL NUMBER MATERIAL PLACED IN:

Cell 4 1960000 = 118  
Cell 3 760000 = 84

## NAME OF TRANSPORTER (DRIVER):

## SIGNATURE OF DRIVER

DATE

## DISPOSAL SITE

South Monument Surface Waste Facility  
P. O. Box 418  
Hobbs, NM 88241-0418  
S25 T205 R36E N/2 NE/4

PERMIT #NM-01-0032  
N/2 NE/4 S25/T205/R36E  
575-390-3665 CELL  
575-391-8391 HOME

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste is: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C regulations; and not mixed with non-exempt waste."

## FACILITY REPRESENTATIVE

DATE

Manifest #

# SOUTH MONUMENT SURFACE WASTE FACILITY

LANDFARM - DIRT SALES

(575) 392-1050 WORK (575) 390-3665 CELL (575) 391-8391 HOME

## LEASE OPERATOR

Southmon Union Gas Services  
Box 5, Loop 464 Monahans, TX 79756

## ORIGINATING LOCATION

EUMONT TANK BATTERY  
LOT N 56090 T105 A37E

## TRANSPORTER NAME &amp; ADDRESS

Aspen Environmental Services

## DESCRIPTION OF WASTE

Non-Hazardous Hydrocarbons

## QUANTITY

288 yds 1014LBS

## FACILITY CONTACT:

## SIGNATURE OF CONTACT

DATE

## CELL NUMBER MATERIAL PLACED IN:

Cell 4 1760000 = 204 yds  
Cell 2 760000 = 84 yds

## NAME OF TRANSPORTER (DRIVER):

## SIGNATURE OF DRIVER

DATE

## DISPOSAL SITE

South Monument Surface Waste Facility  
P. O. Box 418  
Hobbs, NM 88241-0418  
S25 T205 R36E N/2 NE/4

PERMIT #NM-01-0032  
N/2 NE/4 S25/T205/R36E  
575-390-3665 CELL  
575-391-8391 HOME

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## FACILITY REPRESENTATIVE

DATE



Manifest #

## SOUTH MONUMENT SURFACE WASTE FACILITY

LANDFARM - DIRT SALES

(575)392-1050 WORK (575)390-3665 CELL (575)391-8391 HOME

## LEASE OPERATOR

SOUTHERN UNION GAS SERVICES  
801 S Loop 464 Monahan, TX 79786

## ORIGINATING LOCATION

Exempt Tank Battery  
Lot 150 to 2005 R37E

## TRANSPORTER NAME &amp; ADDRESS

Basin Environmental Services

## DESCRIPTION OF WASTE

Non-hazardous Hydrocarbons

## QUANTITY

200 yd total YDS

## FACILITY CONTACT:

## SIGNATURE OF CONTACT

DATE

## CELL NUMBER MATERIAL PLACED IN:

Call 5 20 tons = 140  
Call 9 5 tons = 600

## NAME OF TRANSPORTER (DRIVER):

## SIGNATURE OF DRIVER

DATE

## DISPOSAL SITE

South Monument Surface Waste Facility  
P. O. Box 418  
Hobbs, NM 88241-0418  
525 T205 R36E N/2 NE/4PERMIT NM-01-0032  
N/2 NE/4 525/T205/R36E  
575-390-3665 CELL  
575-391-8391 HOME

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C regulations; and not mixed with non-exempt waste."

## FACILITY REPRESENTATIVE

DATE

Manifest #

## SOUTH MONUMENT SURFACE WASTE FACILITY

LANDFARM - DIRT SALES

(575)392-1050 WORK (575)390-3665 CELL (575)391-8391 HOME

## LEASE OPERATOR

Southern Union Gas Services  
801 S Loop 464 Monahan, TX 79786

## ORIGINATING LOCATION

Exempt Tank Battery  
Lot 150 to 2005 R37E

## TRANSPORTER NAME &amp; ADDRESS

Basin Environmental Services

## DESCRIPTION OF WASTE

Non-hazardous Hydrocarbons

## QUANTITY

84 YDS

## FACILITY CONTACT:

## SIGNATURE OF CONTACT

DATE

## CELL NUMBER MATERIAL PLACED IN:

C4

## NAME OF TRANSPORTER (DRIVER):

## SIGNATURE OF DRIVER

DATE

## DISPOSAL SITE

South Monument Surface Waste Facility  
P. O. Box 418  
Hobbs, NM 88241-0418  
525 T205 R36E N/2 NE/4PERMIT NM-01-0032  
N/2 NE/4 525/T205/R36E  
575-390-3665 CELL  
575-391-8391 HOME

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## FACILITY REPRESENTATIVE

DATE



# **Analytical Report 298016**

**for**

## **Southern Union Gas Services-Jal**

**Project Manager: Tony Savoie**

**Eumont Tank**

**BGT 002**

**25-FEB-08**



**12600 West I-20 East Odessa, Texas 79765**

Texas certification numbers:  
Houston, TX T104704215

Florida certification numbers:  
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675  
Norcross(Atlanta), GA E87429

South Carolina certification numbers:  
Norcross(Atlanta), GA 98015

North Carolina certification numbers:  
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America  
Midland - Corpus Christi - Atlanta





25-FEB-08

Project Manager: **Tony Savoie**  
**Southern Union Gas Services-Jal**  
610 Commerce  
Jal, NM 88252

Reference: XENCO Report No: **298016**  
**Eumont Tank**  
Project Address: Lea County, NM

**Tony Savoie:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 298016. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 298016 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

---

**Brent Barron, II**

Odessa Laboratory Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



**Sample Cross Reference 298016****Southern Union Gas Services-Jal, Jal, NM**

Eumont Tank

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
A Floor	S	Feb-19-08 09:30	10 ft	298016-001
B Floor	S	Feb-19-08 09:35	10 ft	298016-002
C Floor	S	Feb-19-08 09:40	10 ft	298016-003
D Floor	S	Feb-19-08 09:45	10 ft	298016-004
E Floor	S	Feb-19-08 09:55	10 ft	298016-005
North Wall	S	Feb-19-08 10:00	5 ft	298016-006
South Wall	S	Feb-19-08 10:10	5 ft	298016-007
East Wall	S	Feb-19-08 10:15	5 ft	298016-008
West Wall	S	Feb-19-08 10:25	5 ft	298016-009



# Project Name: Eumont Tank

Project Id: BGT 002

Contact: Tony Savoie

Project Location: Lea County, NM

Date Received in Lab: Wed Feb-20-08 01:45 pm

Report Date: 25-FEB-08

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	298016-001	298016-002	298016-003	298016-004	298016-005	298016-006
	Field Id: Depth: Matrix: Sampled:	A Floor 10- ft SOIL Feb-19-08 09:30	B Floor 10- ft SOIL Feb-19-08 09:35	C Floor 10- ft SOIL Feb-19-08 09:40	D Floor 10- ft SOIL Feb-19-08 09:45	E Floor 10- ft SOIL Feb-19-08 09:55	North Wall 5- ft SOIL Feb-19-08 10:00
BTEX by EPA 8021	Extracted:					Feb-21-08 10:48	
	Analyzed:					Feb-22-08 14:21	
	Units/RL:					mg/kg RL	
	Benzene					ND 0.0011	
	Toluene					ND 0.0023	
	Ethylbenzene					0.0038 0.0011	
Determination of Inorganic Anions per Ion Chromatography by	m,p-Xylenes					0.0057 0.0023	
	o-Xylene					0.0072 0.0011	
	Xylenes, Total					0.0129	
	Total BTEX					0.0167	
Percent Moisture	Extracted:					Feb-21-08 11:15	
	Analyzed:					mg/kg RL	
TPH by SW8015 Mod	Units/RL:					429 11.5	
	Chloride						
Percent Moisture	Extracted:						
	Analyzed:						
TPH by SW8015 Mod	Units/RL:						
	Percent Moisture						
C6-C12 Gasoline Range Hydrocarbons	Extracted:						
	Analyzed:						
C12-C28 Diesel Range Hydrocarbons	Units/RL:						
	C28-C35 Oil Range Hydrocarbons						
Total TPH	Extracted:						
	Analyzed:						
Total TPH	Units/RL:						
	Total TPH						

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron

Odessa Laboratory Director



**Project Name: Eumont Tank**

**Project Id:** BGT 002  
**Contact:** Tony Savoie  
**Project Location:** Lea County, NM

**Date Received in Lab:** Wed Feb-20-08 01:45 pm  
**Report Date:** 25-FEB-08  
**Project Manager:** Brent Barron, II

<b>Analysis Requested</b>	<b>Lab Id:</b>	298016-007	298016-008	298016-009	
	<b>Field Id:</b>	South Wall	East Wall	West Wall	
	<b>Depth:</b>	5- ft	5- ft	5- ft	
	<b>Matrix:</b>	SOIL	SOIL	SOIL	
<b>Percent Moisture</b>	<b>Sampled:</b>	Feb-19-08 10:10	Feb-19-08 10:15	Feb-19-08 10:25	
	<b>Extracted:</b>				
	<b>Analyzed:</b>	Feb-20-08 17:00	Feb-20-08 17:00	Feb-20-08 17:00	
	<b>Units/RL:</b>	% RL	% RL	% RL	
<b>TPH by SW8015 Mod</b>		9.27	5.35	10.4	
	<b>Extracted:</b>	Feb-20-08 16:47	Feb-20-08 16:47	Feb-20-08 16:47	
	<b>Analyzed:</b>	Feb-20-08 20:56	Feb-20-08 21:22	Feb-20-08 21:49	
	<b>Units/RL:</b>	mg/kg RL	mg/kg RL	mg/kg RL	
	C6-C12 Gasoline Range Hydrocarbons	ND 16.5	16.8 15.8	ND 16.7	
	C12-C28 Diesel Range Hydrocarbons	ND 16.5	110 15.8	ND 16.7	
	C28-C35 Oil Range Hydrocarbons	ND 16.5	ND 15.8	ND 16.7	
<b>Total TPH</b>		ND	126.8	ND	

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 Brent Barron  
 Odessa Laboratory Director



## Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
  - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
  - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
  - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
  - F** RPD exceeded lab control limits.
  - J** The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
  - U** Analyte was not detected.
  - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
  - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
  - K** Sample analyzed outside of recommended hold time.
- \* Outside XENCO'S scope of NELAC Accreditation

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(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(770) 449-8800	(770) 449-5477



Project Name: Eumont Tank

Work Order #: 298016

Project ID: BGT 002

Lab Batch #: 715397

Sample: 298016-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0328	0.0300	109	80-120	
4-Bromofluorobenzene	0.0679	0.0300	226	80-120	**

Lab Batch #: 715397

Sample: 505003-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 715397

Sample: 505003-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0321	0.0300	107	80-120	

Lab Batch #: 715397

Sample: 505003-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

Lab Batch #: 715236

Sample: 297960-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	56.7	50.0	113	70-135	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 \times A / B$

All results are based on MDL and validated for QC purposes.

Project Name: Eumont Tank

Work Order #: 298016

Project ID: BGT 002

Lab Batch #: 715236

Sample: 297960-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	53.1	50.0	106	70-135	

Lab Batch #: 715236

Sample: 298016-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	110	100	110	70-135	
o-Terphenyl	58.1	50.0	116	70-135	

Lab Batch #: 715236

Sample: 298016-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	98.7	100	99	70-135	
o-Terphenyl	52.1	50.0	104	70-135	

Lab Batch #: 715236

Sample: 298016-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	107	100	107	70-135	
o-Terphenyl	56.9	50.0	114	70-135	

Lab Batch #: 715236

Sample: 298016-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	53.1	50.0	106	70-135	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



Project Name: Eumont Tank

Work Order #: 298016

Project ID: BGT 002

Lab Batch #: 715236

Sample: 298016-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	52.8	50.0	106	70-135	

Lab Batch #: 715236

Sample: 298016-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	54.0	50.0	108	70-135	

Lab Batch #: 715236

Sample: 298016-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	53.5	50.0	107	70-135	

Lab Batch #: 715236

Sample: 298016-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	97.6	100	98	70-135	
o-Terphenyl	51.5	50.0	103	70-135	

Lab Batch #: 715236

Sample: 298016-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	103	100	103	70-135	
o-Terphenyl	54.8	50.0	110	70-135	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.

# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank

Work Order #: 298016

Project ID: BGT 002

Lab Batch #: 715236

Sample: 504930-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	52.1	50.0	104	70-135	

Lab Batch #: 715236

Sample: 504930-1-BKS / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	51.6	50.0	103	70-135	

Lab Batch #: 715236

Sample: 504930-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	56.9	50.0	114	70-135	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.





# Blank Spike Recovery



Project Name: Eumont Tank

Work Order #: 298016

Project ID:

BGT 002

Lab Batch #: 715436

Sample: 715436-1-BKS

Matrix: Solid

Date Analyzed: 02/21/2008

Date Prepared: 02/21/2008

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

## BLANK /BLANK SPIKE RECOVERY STUDY

Determination of Inorganic Anions per Ion Chro	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Chloride	ND	10.0	9.64	96	75-125	

Blank Spike Recovery [D] =  $100 \times [C] / [B]$

All results are based on MDL and validated for QC purposes.

**Project Name: Eumont Tank**

**Work Order #: 298016**

**Analyst: SHE**

**Lab Batch ID: 715397**

**Sample: 505003-1-BKS**

**Date Prepared: 02/21/2008**

**Batch #: 1**

**Project ID: BGT 002**

**Date Analyzed: 02/22/2008**

**Matrix: Solid**

**Units: mg/kg**

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Units: mg/kg											
Analytes	BTEX by EPA 8021										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Benzene	ND	0.1000	0.0906	91	0.1	0.0890	89	2	70-130	35
	Toluene	ND	0.1000	0.0902	90	0.1	0.0885	89	2	70-130	35
	Ethylbenzene	ND	0.1000	0.0913	91	0.1	0.0892	89	2	71-129	35
	m,p-Xylenes	ND	0.2000	0.1820	91	0.2	0.1778	89	2	70-135	35
	o-Xylene	ND	0.1000	0.0973	97	0.1	0.0941	94	3	71-133	35

**Analyst: SHE**

**Lab Batch ID: 715236**

**Sample: 504930-1-BKS**

**Date Prepared: 02/20/2008**

**Batch #: 1**

**Date Analyzed: 02/20/2008**

**Matrix: Solid**

**Units: mg/kg**

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Units: mg/kg											
Analytes	TPH by SW8015 Mod										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	920	92	1000	901	90	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	837	84	1000	817	82	2	70-135	35	

Relative Percent Difference  $RPD = 200 * (D - F) / (D + F)$

Blank Spike Recovery  $[D] = 100 * (C) / [B]$

Blank Spike Duplicate Recovery  $[G] = 100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes





# Form 3 - MS Recoveries



Project Name: Eumont Tank

Work Order #: 298016

Lab Batch #: 715436

Date Analyzed: 02/21/2008

QC- Sample ID: 298016-005 S

Reporting Units: mg/kg

Date Prepared: 02/21/2008

Batch #: 1

Project ID: BGT 002

Analyst: LATCOR

Matrix: Soil

## MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	429	229	682	110	75-125	

Matrix Spike Percent Recovery [D] =  $100 \times (C-A)/B$

Relative Percent Difference [E] =  $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Eumont Tank

Work Order #: 298016

Lab Batch ID: 715236

Date Analyzed: 02/20/2008

Reporting Units: mg/kg

QC- Sample ID: 297960-002 S

Date Prepared: 02/20/2008

Project ID: BGT 002

Batch #: 1

Matrix: Soil

Analyst: SHE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY												
Reporting Units: mg/kg	TPH by SW8015 Mod  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	C6-C12 Gasoline Range Hydrocarbons	ND	1070	1040	97	1070	980	92	5	70-135	35	
	C12-C28 Diesel Range Hydrocarbons	ND	1070	956	89	1070	901	84	6	70-135	35	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B

Relative Percent Difference RPD = 200\*(D-G)/(D+G)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E





## Sample Duplicate Recovery



Project Name: Eumont Tank

Work Order #: 298016

Lab Batch #: 715436

Date Analyzed: 02/21/2008

QC- Sample ID: 298016-005 D

Reporting Units: mg/kg

Project ID: BGT 002

Analyst: LATCOR

Matrix: Soil

Batch #: 1

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Determination of Inorganic Anions per Ion Chromatography by Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	429	439	2	20	

Lab Batch #: 715262

Date Analyzed: 02/20/2008

QC- Sample ID: 297960-001 D

Reporting Units: %

Date Prepared: 02/20/2008

Analyst: JLG

Matrix: Soil

Batch #: 1

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	6.51	6.20	5	20	

Spike Relative Difference RPD  $200 * |(B-A)/(B+A)|$   
All Results are based on MDL and validated for QC purposes.

# Environmental Lab of Texas

CHAIN OF CUSTODY RECORD  
12600 West I-20 East  
Odessa, Texas 79765

Project Manager: Tony Saviole PAGE 01 OF 01 Project: \_\_\_\_\_  
Company Name: Southern Union Gas Pr: \_\_\_\_\_  
Company Address: SUGS, Jal Proj: \_\_\_\_\_  
City/State/Zip: Jal, New Mexico 88252  
Telephone No: (575) 631-9376 Fax No: \_\_\_\_\_  
Sampler Signature: Bobby Blackwood e-mail: tony.saviole@suq.com

(lab use only) ORDER #: 298016

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Preservation & # of Containers										Matrix	
						Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW - Drinking Water SL - Sludge	CW - Groundwater S - Soil/Soil		NP - Non-Portable Specify Other
1	A FLOOR		10'	19 Feb 08	0930	1	X									SOIL	X
2	B FLOOR		10'	19-Feb-08	0935	1	X									SOIL	X
3	C FLOOR		10'	19-Feb-08	0940	1	X									SOIL	X
4	D FLOOR		10'	19-Feb-08	0945	1	X									SOIL	X
5	E FLOOR		10'	19-Feb-08	0955	1	X									SOIL	X
6	NORTH WALL		5'	19-Feb-08	1000	1	X									SOIL	X
7	SOUTH WALL		5'	19-Feb-08	1010	1	X									SOIL	X
8	EAST WALL		5'	19-Feb-08	1015	1	X									SOIL	X
9	WEST WALL		5'	19-Feb-08	1025	1	X									SOIL	X

Special Instructions:

Relinquished by: Bobby Blackwood Date: 2/20/08 Time: 0900 Received by: Jana Blackwood Date: 2/20/08 Time: 0900

Relinquished by: Jana Blackwood Date: 2/20/08 Time: 1:45 Received by: Andrea Jann Date: 2-20-08 Time: 1:15



#1	Temperature of container/ cooler?	<u>Yes</u>	No	4.5	
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by ELOT?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	<u>Not Applicable</u>	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

### Variance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Check all that Apply:

☐  
☐  
☐

See attached e-mail/ fax

Client understands and would like to proceed with analysis

Cooling process had begun shortly after sampling event

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
10014 SCR 1213  
Midland, TX 79706**

***PBELAB***

## Analytical Report

**Prepared for:**

Joel Lowry  
Basin Environmental Services  
P.O. Box 301  
Lovington, NM 88260

Project: Eumont Tank Battery (RP 1799)

Project Number: SUG Historical Release

Location: Lea County, New Mexico

Lab Order Number: 2H24007



**NELAP/TCEQ # T104704156-12-1**

Report Date: 08/29/12



Basin Environmental Services  
P.O. Box 301  
Lovington NM, 88260

Project: Eumont Tank Battery (RP 1799)  
Project Number: SUG Historical Release  
Project Manager: Joel Lowry

Fax: (505) 396-1429

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TT-1 @ 10'	2H24007-01	Soil	08/22/12 10:30	08-24-2012 13:50
TT-1 @ 16'	2H24007-02	Soil	08/22/12 10:50	08-24-2012 13:50
TT-2 West	2H24007-03	Soil	08/22/12 11:30	08-24-2012 13:50
TT-2 East	2H24007-04	Soil	08/22/12 11:15	08-24-2012 13:50
TT-3 @ 8'	2H24007-05	Soil	08/22/12 12:00	08-24-2012 13:50
TT-4 @ 7'	2H24007-06	Soil	08/22/12 12:40	08-24-2012 13:50
TT-1 @ 3'	2H24007-07	Soil	08/22/12 10:10	08-24-2012 13:50

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**Organics by GC**  
**Permian Basin Environmental Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TT-1 @ 10' (2H24007-01) Soil</b>									
Benzene	ND	0.0200	mg/kg dry	20	EH22804	08/26/12	08/27/12	EPA 8021B	
Toluene	ND	0.0400	"	"	"	"	"	"	
Ethylbenzene	<b>0.233</b>	0.0200	"	"	"	"	"	"	
Xylene (p/m)	<b>0.805</b>	0.0400	"	"	"	"	"	"	
Xylene (o)	<b>0.714</b>	0.0200	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.2 %	75-125		"	"	"	"	
Surrogate: 1,4-Difluorobenzene		93.3 %	75-125		"	"	"	"	
C6-C12	<b>731</b>	16.5	mg/kg dry	"	EH22805	08/27/12	08/27/12	EPA 8015M	
>C12-C28	<b>5480</b>	16.5	"	"	"	"	"	"	
>C28-C35	<b>971</b>	16.5	"	"	"	"	"	"	
Total Hydrocarbons	<b>7180</b>	16.5	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		105 %	70-130		"	"	"	"	
Surrogate: o-Terphenyl		93.6 %	70-130		"	"	"	"	
<b>TT-1 @ 16' (2H24007-02) Soil</b>									
Benzene	ND	0.00100	mg/kg dry	1	EH22901	08/28/12	08/28/12	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	<b>0.00641</b>	0.00100	"	"	"	"	"	"	
Xylene (p/m)	<b>0.0237</b>	0.00200	"	"	"	"	"	"	
Xylene (o)	<b>0.0115</b>	0.00100	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		"	"	"	"	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		"	"	"	"	
C6-C12	<b>149</b>	16.5	mg/kg dry	"	EH22805	08/27/12	08/27/12	EPA 8015M	
>C12-C28	<b>3220</b>	16.5	"	"	"	"	"	"	
>C28-C35	<b>625</b>	16.5	"	"	"	"	"	"	
Total Hydrocarbons	<b>3990</b>	16.5	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		107 %	70-130		"	"	"	"	
Surrogate: o-Terphenyl		102 %	70-130		"	"	"	"	
<b>TT-2 West (2H24007-03) Soil</b>									
Benzene	ND	0.00100	mg/kg dry	1	EH22804	08/26/12	08/27/12	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		"	"	"	"	
C6-C12	<b>ND</b>	15.8	mg/kg dry	"	EH22706	08/24/12	08/25/12	EPA 8015M	

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.



Basin Environmental Services  
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Project: Eumont Tank Battery (RP 1799)  
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Project Manager: Joel Lowry

Fax: (505) 396-1429

**Organics by GC**  
**Permian Basin Environmental Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TT-2 West (2H24007-03) Soil</b>									
>C12-C28	ND	15.8	mg/kg dry	1	EH22706	08/24/12	08/25/12	EPA 8015M	
>C28-C35	ND	15.8	"	"	"	"	"	"	
Total Hydrocarbons	ND	15.8	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		112 %	70-130		"	"	"	"	
Surrogate: o-Terphenyl		119 %	70-130		"	"	"	"	
<b>TT-2 East (2H24007-04) Soil</b>									
Benzene	ND	0.00100	mg/kg dry	1	EH22804	08/26/12	08/27/12	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: 1,4-Difluorobenzene		119 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		"	"	"	"	
C6-C12	361	81.5	mg/kg dry	5	EH22706	08/24/12	08/25/12	EPA 8015M	
>C12-C28	24900	81.5	"	"	"	"	"	"	
>C28-C35	3870	81.5	"	"	"	"	"	"	
Total Hydrocarbons	29200	81.5	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		107 %	70-130		"	"	"	"	
Surrogate: o-Terphenyl		127 %	70-130		"	"	"	"	
<b>TT-3 @ 8' (2H24007-05) Soil</b>									
Benzene	ND	0.00100	mg/kg dry	1	EH22804	08/26/12	08/27/12	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: 1,4-Difluorobenzene		104 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	75-125		"	"	"	"	
C6-C12	ND	15.6	mg/kg dry	"	EH22706	08/24/12	08/25/12	EPA 8015M	
>C12-C28	ND	15.6	"	"	"	"	"	"	
>C28-C35	ND	15.6	"	"	"	"	"	"	
Total Hydrocarbons	ND	15.6	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		104 %	70-130		"	"	"	"	
Surrogate: o-Terphenyl		112 %	70-130		"	"	"	"	

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**Organics by GC**  
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TT-4 @ 7' (2H24007-06) Soil</b>									
Benzene	ND	0.00100	mg/kg dry	1	EH22804	08/26/12	08/27/12	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		"	"	"	"	
C6-C12	ND	15.5	mg/kg dry	"	EH22706	08/24/12	08/25/12	EPA 8015M	
>C12-C28	ND	15.5	"	"	"	"	"	"	
>C28-C35	ND	15.5	"	"	"	"	"	"	
Total Hydrocarbons	ND	15.5	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		109 %	70-130		"	"	"	"	
Surrogate: o-Terphenyl		115 %	70-130		"	"	"	"	
<b>TT-1 @ 3' (2H24007-07) Soil</b>									
Benzene	ND	0.00100	mg/kg dry	1	EH22804	08/26/12	08/27/12	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: 1,4-Difluorobenzene		106 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	75-125		"	"	"	"	
C6-C12	ND	15.3	mg/kg dry	"	EH22805	08/27/12	08/27/12	EPA 8015M	
>C12-C28	725	15.3	"	"	"	"	"	"	
>C28-C35	324	15.3	"	"	"	"	"	"	
Total Hydrocarbons	1050	15.3	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		108 %	70-130		"	"	"	"	
Surrogate: o-Terphenyl		105 %	70-130		"	"	"	"	



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**General Chemistry Parameters by EPA / Standard Methods**  
**Permian Basin Environmental Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TT-1 @ 10' (2H24007-01) Soil</b>									
Chloride	12.9	1.10	mg/kg dry wt. dry	1	EH22705	08/26/12	08/27/12	EPA 300.0	
% Moisture	9.0	0.1	%	"	EH22702	08/24/12	08/27/12	% calculation	
<b>TT-1 @ 16' (2H24007-02) Soil</b>									
Chloride	7.60	1.10	mg/kg dry wt. dry	1	EH22705	08/26/12	08/27/12	EPA 300.0	
% Moisture	9.0	0.1	%	"	EH22702	08/24/12	08/27/12	% calculation	
<b>TT-2 West (2H24007-03) Soil</b>									
Chloride	10.8	1.05	mg/kg dry wt. dry	1	EH22705	08/26/12	08/27/12	EPA 300.0	
% Moisture	5.0	0.1	%	"	EH22702	08/24/12	08/27/12	% calculation	
<b>TT-2 East (2H24007-04) Soil</b>									
Chloride	8.90	1.09	mg/kg dry wt. dry	1	EH22705	08/26/12	08/27/12	EPA 300.0	
% Moisture	8.0	0.1	%	"	EH22702	08/24/12	08/27/12	% calculation	
<b>TT-3 @ 8' (2H24007-05) Soil</b>									
Chloride	135	1.04	mg/kg dry wt. dry	1	EH22705	08/26/12	08/27/12	EPA 300.0	
% Moisture	4.0	0.1	%	"	EH22702	08/24/12	08/27/12	% calculation	
<b>TT-4 @ 7' (2H24007-06) Soil</b>									
Chloride	7.48	1.03	mg/kg dry wt. dry	1	EH22705	08/26/12	08/27/12	EPA 300.0	
% Moisture	3.0	0.1	%	"	EH22702	08/24/12	08/27/12	% calculation	
<b>TT-1 @ 3' (2H24007-07) Soil</b>									
Chloride	1.46	1.02	mg/kg dry wt. dry	1	EH22705	08/26/12	08/27/12	EPA 300.0	
% Moisture	2.0	0.1	%	"	EH22702	08/24/12	08/27/12	% calculation	

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**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EH22706 - 8015M**

**Blank (EH22706-BLK1)**

Prepared & Analyzed: 08/24/12

C6-C12	ND	15.0	mg/kg wet							
>C12-C28	ND	15.0	"							
>C28-C35	ND	15.0	"							
Total Hydrocarbons	ND	15.0	"							
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	60.2		"	50.0		120	70-130			

**LCS (EH22706-BS1)**

Prepared & Analyzed: 08/24/12

C6-C12	779	15.0	mg/kg wet	1000		77.9	75-125			
>C12-C28	804	15.0	"	1000		80.4	75-125			
>C28-C35	ND	15.0	"	0.00			75-125			
Total Hydrocarbons	ND	15.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	129		"	100		129	70-130			
Surrogate: o-Terphenyl	53.5		"	50.0		107	70-130			

**LCS Dup (EH22706-BSD1)**

Prepared & Analyzed: 08/24/12

C6-C12	840	15.0	mg/kg wet	1000		84.0	75-125	7.54	20	
>C12-C28	865	15.0	"	1000		86.5	75-125	7.31	20	
Total Hydrocarbons	ND	15.0	"	0.00			75-125		20	
Surrogate: 1-Chlorooctane	130		"	100		130	70-130			
Surrogate: o-Terphenyl	55.8		"	50.0		112	70-130			

**Matrix Spike (EH22706-MS1)**

Source: 2H23002-01

Prepared: 08/24/12 Analyzed: 08/25/12

C6-C12	864	15.8	mg/kg dry	1050	ND	82.3	75-125			
>C12-C28	977	15.8	"	1050	ND	93.0	75-125			
>C28-C35	ND	15.8	"	0.00	ND		75-125			
Total Hydrocarbons	ND	15.8	"	0.00	ND		75-125			
Surrogate: 1-Chlorooctane	135		"	105		129	70-130			
Surrogate: o-Terphenyl	58.0		"	52.6		110	70-130			



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**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EH22706 - 8015M**

**Matrix Spike Dup (EH22706-MSD1)**

Source: 2H23002-01

Prepared: 08/24/12 Analyzed: 08/25/12

C6-C12	847	15.8	mg/kg dry	1050	ND	80.7	75-125	1.96	20	
>C12-C28	883	15.8	"	1050	ND	84.1	75-125	10.1	20	
Total Hydrocarbons	ND	15.8	"	0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	132		"	105		126	70-130			
Surrogate: o-Terphenyl	53.9		"	52.6		102	70-130			

**Batch EH22804 - General Preparation (GC)**

**Blank (EH22804-BLK1)**

Prepared: 08/26/12 Analyzed: 08/27/12

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	62.3		ug/kg	60.0		104	75-125			
Surrogate: 1,4-Difluorobenzene	60.3		"	60.0		100	75-125			

**LCS (EH22804-BS1)**

Prepared: 08/26/12 Analyzed: 08/27/12

Benzene	0.114	0.00100	mg/kg wet	0.100		114	80-120			
Toluene	0.119	0.00200	"	0.100		119	80-120			
Ethylbenzene	0.0991	0.00100	"	0.100		99.1	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		97.0	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 1,4-Difluorobenzene	59.6		ug/kg	60.0		99.3	75-125			
Surrogate: 4-Bromofluorobenzene	60.9		"	60.0		102	75-125			

**LCS Dup (EH22804-BSD1)**

Prepared: 08/26/12 Analyzed: 08/27/12

Benzene	0.117	0.00100	mg/kg wet	0.100		117	80-120	2.60	20	
Toluene	0.119	0.00200	"	0.100		119	80-120	0.00	20	
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120	2.88	20	
Xylene (p/m)	0.199	0.00200	"	0.200		99.5	80-120	2.54	20	
Xylene (o)	0.105	0.00100	"	0.100		105	80-120	1.92	20	
Surrogate: 1,4-Difluorobenzene	59.2		ug/kg	60.0		98.7	75-125			
Surrogate: 4-Bromofluorobenzene	59.8		"	60.0		99.7	75-125			

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**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EH22804 - General Preparation (GC)**

**Matrix Spike (EH22804-MS1)**

Source: 2H24007-04

Prepared: 08/26/12 Analyzed: 08/27/12

Benzene	0.0367	0.00100	mg/kg dry	0.109	ND	33.7	80-120			QM-05
Toluene	0.0282	0.00200	"	0.109	ND	25.9	80-120			QM-05
Ethylbenzene	0.0223	0.00100	"	0.109	ND	20.5	80-120			QM-05
Xylene (p/m)	0.0384	0.00200	"	0.217	ND	17.7	80-120			QM-05
Xylene (o)	0.0200	0.00100	"	0.109	ND	18.3	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	57.5		ug/kg	60.0		95.8	75-125			
Surrogate: 1,4-Difluorobenzene	74.9		"	60.0		125	75-125			

**Matrix Spike Dup (EH22804-MSD1)**

Source: 2H24007-04

Prepared: 08/26/12 Analyzed: 08/27/12

Benzene	0.0367	0.00100	mg/kg dry	0.109	ND	33.7	80-120	0.00	20	QM-05
Toluene	0.0305	0.00200	"	0.109	ND	28.0	80-120	7.79	20	QM-05
Ethylbenzene	0.0214	0.00100	"	0.109	ND	19.6	80-120	4.49	20	QM-05
Xylene (p/m)	0.0359	0.00200	"	0.217	ND	16.5	80-120	7.02	20	QM-05
Xylene (o)	0.0174	0.00100	"	0.109	ND	16.0	80-120	13.4	20	QM-05
Surrogate: 4-Bromofluorobenzene	59.5		ug/kg	60.0		99.2	75-125			
Surrogate: 1,4-Difluorobenzene	67.6		"	60.0		113	75-125			

**Batch EH22805 - TX 1005**

**Blank (EH22805-BLK1)**

Prepared & Analyzed: 08/27/12

C6-C12	ND	15.0	mg/kg wet							
>C12-C28	ND	15.0	"							
>C28-C35	ND	15.0	"							
Total Hydrocarbons	ND	15.0	"							
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	57.9		"	50.0		116	70-130			



Basin Environmental Services  
P.O. Box 301  
Lovington NM, 88260

Project: Eumont Tank Battery (RP 1799)  
Project Number: SUG Historical Release  
Project Manager: Joel Lowry

Fax: (505) 396-1429

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EH22805 - TX 1005**

**LCS (EH22805-BS1)**

Prepared & Analyzed: 08/27/12

C6-C12	931	15.0	mg/kg wet	1000		93.1	75-125			
>C12-C28	981	15.0	"	1000		98.1	75-125			
Total Hydrocarbons	ND	15.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	63.4		"	50.0		127	70-130			

**LCS Dup (EH22805-BSD1)**

Prepared & Analyzed: 08/27/12

C6-C12	939	15.0	mg/kg wet	1000		93.9	75-125	0.856	20	
>C12-C28	961	15.0	"	1000		96.1	75-125	2.06	20	
Total Hydrocarbons	ND	15.0	"	0.00			75-125		20	
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	61.7		"	50.0		123	70-130			

**Matrix Spike (EH22805-MS1)**

Source: 2H24004-01

Prepared & Analyzed: 08/27/12

C6-C12	1220	17.9	mg/kg dry	595	460	128	75-125			QM-05
>C12-C28	5590	17.9	"	595	5340	42.0	75-125			QM-05
>C28-C35	770	17.9	"	0.00	940		75-125			
Total Hydrocarbons	ND	17.9	"	0.00	6750		75-125			
Surrogate: 1-Chlorooctane	139		"	119		117	70-130			
Surrogate: o-Terphenyl	68.5		"	59.5		115	70-130			

**Matrix Spike Dup (EH22805-MSD1)**

Source: 2H24004-01

Prepared & Analyzed: 08/27/12

C6-C12	1160	17.9	mg/kg dry	595	460	118	75-125	8.13	20	
>C12-C28	5490	17.9	"	595	5340	25.2	75-125	50.0	20	QM-05
>C28-C35	821	17.9	"	0.00	940		75-125		20	QM-05
Total Hydrocarbons	ND	17.9	"	0.00	6750		75-125		20	
Surrogate: 1-Chlorooctane	138		"	119		116	70-130			
Surrogate: o-Terphenyl	61.5		"	59.5		103	70-130			

Basin Environmental Services  
P.O. Box 301  
Lovington NM, 88260

Project: Eumont Tank Battery (RP 1799)  
Project Number: SUG Historical Release  
Project Manager: Joel Lowry

Fax: (505) 396-1429

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EH22901 - General Preparation (GC)**

**Blank (EH22901-BLK1)**

Prepared & Analyzed: 08/28/12

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	60.5		ug/kg	60.0		101	75-125			
Surrogate: 1,4-Difluorobenzene	61.0		"	60.0		102	75-125			

**LCS (EH22901-BS1)**

Prepared & Analyzed: 08/28/12

Benzene	0.116	0.00100	mg/kg wet	0.100		116	80-120			
Toluene	0.119	0.00200	"	0.100		119	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.209	0.00200	"	0.200		104	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	57.2		ug/kg	60.0		95.3	75-125			
Surrogate: 1,4-Difluorobenzene	57.2		"	60.0		95.3	75-125			

**LCS Dup (EH22901-BS1)**

Prepared & Analyzed: 08/28/12

Benzene	0.111	0.00100	mg/kg wet	0.100		111	80-120	4.41	20	
Toluene	0.117	0.00200	"	0.100		117	80-120	1.69	20	
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120	2.87	20	
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120	1.94	20	
Xylene (o)	0.104	0.00100	"	0.100		104	80-120	0.957	20	
Surrogate: 4-Bromofluorobenzene	57.1		ug/kg	60.0		95.2	75-125			
Surrogate: 1,4-Difluorobenzene	56.2		"	60.0		93.7	75-125			



Basin Environmental Services  
P.O. Box 301  
Lovington NM, 88260

Project: Eumont Tank Battery (RP 1799)  
Project Number: SUG Historical Release  
Project Manager: Joel Lowry

Fax: (505) 396-1429

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EH22705 - \*\*\* DEFAULT PREP \*\*\***

**Blank (EH22705-BLK1)**

Prepared: 08/26/12 Analyzed: 08/27/12

Chloride	ND	1.00	mg/kg dry wt. wet
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**LCS (EH22705-BS1)**

Prepared: 08/26/12 Analyzed: 08/27/12

Chloride	9.63		mg/kg Wet	10.0		96.3	80-120
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**LCS Dup (EH22705-BSD1)**

Prepared: 08/26/12 Analyzed: 08/27/12

Chloride	9.95		mg/kg Wet	10.0		99.5	80-120	3.27	20
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**Duplicate (EH22705-DUP1)**

Source: 2H24006-01

Prepared: 08/26/12 Analyzed: 08/27/12

Chloride	31.6	1.00	mg/kg dry wt. dry		31.6			0.00	20
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**Matrix Spike (EH22705-MS1)**

Source: 2H24006-01

Prepared: 08/26/12 Analyzed: 08/27/12

Chloride	140	1.00	mg/kg dry wt. dry	100	31.6	108	80-120
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**Matrix Spike (EH22705-MS2)**

Source: 2H24007-04

Prepared: 08/26/12 Analyzed: 08/27/12

Chloride	108	1.09	mg/kg dry wt. dry	109	8.90	90.9	80-120
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Basin Environmental Services  
P.O. Box 301  
Lovington NM, 88260

Project: Eumont Tank Battery (RP 1799)  
Project Number: SUG Historical Release  
Project Manager: Joel Lowry

Fax: (505) 396-1429

### Notes and Definitions

QM-05     The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

DET        Analyte DETECTED

ND        Analyte NOT DETECTED at or above the reporting limit

NR        Not Reported

dry        Sample results reported on a dry weight basis

RPD        Relative Percent Difference

LCS        Laboratory Control Spike

MS        Matrix Spike

Dup        Duplicate

Report Approved By:



Date:

8/29/2012

Brent Barron, Laboratory Director/Technical Director

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Fax: (505) 396-1429

**Analytical Report 458450**  
**for**  
**Southern Union Gas Services- Monahans**

**Project Manager: Joel Lowry**

**Eumont Tank Battery**

**(1RP-1799)**

**11-MAR-13**

Collected By: Client



**12600 West I-20 East Odessa, Texas 79765**

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)  
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)  
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)  
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135)  
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)





11-MAR-13

Project Manager: **Joel Lowry**  
**Southern Union Gas Services- Monahans**  
801 South Loop 464  
Monahans, TX 79756

Reference: XENCO Report No(s): **458450**  
**Eumont Tank Battery**  
Project Address: Lea County, NM

**Joel Lowry:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 458450. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 458450 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

---

**Nicholas Straccione**

Project Manager

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## Sample Cross Reference 458450



### Southern Union Gas Services- Monahans, Monahans, TX

#### Eumont Tank Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-1 @ 5'	S	02-25-13 09:30	5 ft	458450-001
SB-1 @ 10'	S	02-25-13 09:40	10 ft	458450-002
SB-1 @ 15'	S	02-25-13 09:50	15 ft	458450-003
SB-1 @ 20'	S	02-25-13 10:00	20 ft	458450-004
SB-1 @ 25'	S	02-25-13 10:10	25 ft	458450-005
SB-1 @ 30'	S	02-25-13 10:20	30 ft	458450-006
SB-1 @ 35'	S	02-25-13 10:30	35 ft	458450-007
SB-1 @ 40'	S	02-25-13 10:40	40 ft	458450-008





## CASE NARRATIVE

**Client Name:** Southern Union Gas Services- Monahans  
**Project Name:** Eumont Tank Battery



Project ID: (IRP-1799)  
Work Order Number(s): 458450

Report Date: 11-MAR-13  
Date Received: 02/27/2013

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-908636 BTEX by EPA 8021B  
SW8021BM

Batch 908636, Ethylbenzene, m\_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 458450-006, -008, -004.

The Laboratory Control Sample for Ethylbenzene, m\_p-Xylenes , o-Xylene is within laboratory Control Limits



Project Id: (1RP-1799)

**Contact:** Joel Lowry

**Project Location:** Lea County, NM

**Date Received in Lab:** Wed Feb-27-13 10:20 am

Report Date: 11-MAR-13

**Project Manager:** Nicholas Straccione

Analysis Requested		Lab Id:	458450-001	458450-002	458450-003	458450-004	458450-005	458450-006
		Field Id:	SB-1 @ 5'	SB-1 @ 10'	SB-1 @ 15'	SB-1 @ 20'	SB-1 @ 25'	SB-1 @ 30'
		Depth:	5- ft	10- ft	15- ft	20- ft	25- ft	30- ft
		Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sampled:	Feb-25-13 09:30	Feb-25-13 09:40	Feb-25-13 09:50	Feb-25-13 10:00	Feb-25-13 10:10	Feb-25-13 10:20
BTEx by EPA 8021B		Extracted:						
		Analyzed:						
		Units/RL:						
Benzene						0.00945	0.00543	ND
Toluene						0.0143	0.0109	ND
Ethylbenzene						0.354	0.00543	ND
m_p-Xylenes						0.740	0.0109	ND
o-Xylene						0.148	0.00543	ND
Total Xylenes						0.888	0.00543	ND
Total BTEx						1.27	0.00543	ND
Inorganic Anions by EPA 300/300.1 SUB: TX104704215		Extracted:						
		Analyzed:	Mar-06-13 01:04	Mar-06-13 17:21	Mar-06-13 02:09	Mar-06-13 02:31	Mar-06-13 02:53	Mar-06-13 03:15
		Units/RL:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Chloride			94.3	1390	21.0	11.5	13.7	9.72
Percent Moisture		Extracted:						
		Analyzed:	Mar-01-13 13:45	Mar-01-13 13:45	Mar-01-13 13:45	Mar-01-13 13:45	Mar-01-13 13:45	Mar-01-13 13:45
		Units/RL:	%	%	%	%	%	%
Percent Moisture			16.1	9.60	11.3	7.97	8.55	6.44
TPH By SW8015 Mod		Extracted:	Mar-01-13 08:30	Mar-01-13 08:30	Mar-01-13 08:30	Mar-01-13 08:30	Mar-01-13 16:00	Mar-01-13 16:00
		Analyzed:	Mar-01-13 19:18	Mar-01-13 19:44	Mar-01-13 20:10	Mar-01-13 20:36	Mar-02-13 04:50	Mar-02-13 05:14
		Units/RL:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C6-C12 Gasoline Range Hydrocarbons			1850	594	740	374	28.5	ND
C12-C28 Diesel Range Hydrocarbons			40000	6760	4260	6140	767	120
C28-C35 Oil Range Hydrocarbons			4360	592	298	576	68.8	ND
Total TPH			46200	7950	5300	7090	864	120

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Nicholas Straccione  
Project Manager





Project Id: (IRP-1799)

Contact: Joel Lowry

Project Location: Lea County, NM

Project Name: Eumont Tank Battery

Date Received in Lab: Wed Feb-27-13 10:20 am

Report Date: 11-MAR-13

Project Manager: Nicholas Straccione

<i>Analysis Requested</i>		<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>
BTEX by EPA 8021B		458450-007	SB-1 @ 35'	35- ft	SOIL	Feb-25-13 10:30			
Benzene									
Toluene									
Ethylbenzene									
m_p-Xylenes									
o-Xylene									
Total Xylenes									
Total BTEX									
Inorganic Anions by EPA 300/300.1									
SUB: TX104704215									
Chloride									
Percent Moisture									
TPH By SW8015 Mod									
C6-C12 Gasoline Range Hydrocarbons									
C12-C28 Diesel Range Hydrocarbons									
C28-C35 Oil Range Hydrocarbons									
Total TPH									

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Nicholas Straccione  
Project Manager

## Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 458450,

Project ID: (1RP-1799)

Lab Batch #: 908097

Sample: 458450-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/01/13 19:18

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	99.9	103	70-135	
o-Terphenyl	46.4	50.0	93	70-135	

Lab Batch #: 908097

Sample: 458450-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/01/13 19:44

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	53.7	50.0	107	70-135	

Lab Batch #: 908097

Sample: 458450-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/01/13 20:10

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99.5	110	70-135	
o-Terphenyl	54.8	49.8	110	70-135	

Lab Batch #: 908097

Sample: 458450-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/01/13 20:36

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	100	104	70-135	
o-Terphenyl	50.9	50.1	102	70-135	

Lab Batch #: 908102

Sample: 458450-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/02/13 04:50

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.9	100	70-135	
o-Terphenyl	53.8	50.0	108	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 458450,

Project ID: (1RP-1799)

Lab Batch #: 908102

Sample: 458450-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/02/13 05:14

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.7	99.7	98	70-135	
o-Terphenyl	52.3	49.9	105	70-135	

Lab Batch #: 908102

Sample: 458450-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/02/13 05:38

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.5	99.9	100	70-135	
o-Terphenyl	51.7	50.0	103	70-135	

Lab Batch #: 908102

Sample: 458450-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/02/13 06:25

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.9	99.7	95	70-135	
o-Terphenyl	50.6	49.9	101	70-135	

Lab Batch #: 908636

Sample: 458450-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/08/13 16:12

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 908636

Sample: 458450-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/08/13 16:28

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 458450,

Project ID: (1RP-1799)

Lab Batch #: 908636

Sample: 458450-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/08/13 16:44

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0261	0.0300	87	80-120	
4-Bromofluorobenzene	0.0291	0.0300	97	80-120	

Lab Batch #: 908097

Sample: 634521-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/01/13 11:17

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	94.8	99.9	95	70-135	
o-Terphenyl	50.7	50.0	101	70-135	

Lab Batch #: 908102

Sample: 634524-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/02/13 01:36

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	98.9	99.8	99	70-135	
o-Terphenyl	52.7	49.9	106	70-135	

Lab Batch #: 908636

Sample: 634866-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/08/13 15:06

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

Lab Batch #: 908097

Sample: 634521-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/01/13 10:25

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	90.7	99.8	91	70-135	
o-Terphenyl	53.1	49.9	106	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 458450,

Project ID: (1RP-1799)

Lab Batch #: 908102

Sample: 634524-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/02/13 00:47

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.3	99.7	90	70-135	
o-Terphenyl	51.5	49.9	103	70-135	

Lab Batch #: 908636

Sample: 634866-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/08/13 14:33

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 908097

Sample: 634521-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/01/13 10:51

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.7	99.7	93	70-135	
o-Terphenyl	53.2	49.9	107	70-135	

Lab Batch #: 908102

Sample: 634524-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/02/13 01:12

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.9	99.9	95	70-135	
o-Terphenyl	55.0	50.0	110	70-135	

Lab Batch #: 908636

Sample: 634866-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/08/13 14:49

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 458450,

Project ID: (1RP-1799)

Lab Batch #: 908097

Sample: 458375-005 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/01/13 21:01

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.4	100	93	70-135	
o-Terphenyl	52.4	50.1	105	70-135	

Lab Batch #: 908102

Sample: 458454-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/02/13 10:35

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.7	99.7	94	70-135	
o-Terphenyl	53.9	49.9	108	70-135	

Lab Batch #: 908636

Sample: 458452-004 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/08/13 20:01

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0329	0.0300	110	80-120	

Lab Batch #: 908097

Sample: 458375-005 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/01/13 21:27

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.9	101	70-135	
o-Terphenyl	55.8	50.0	112	70-135	

Lab Batch #: 908102

Sample: 458454-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/02/13 11:01

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.2	99.9	94	70-135	
o-Terphenyl	55.2	50.0	110	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



## Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 458450,

Project ID: (1RP-1799)

Lab Batch #: 908636

Sample: 458452-004 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/08/13 20:17

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0315	0.0300	105	80-120	
4-Bromofluorobenzene	0.0342	0.0300	114	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.



**Project Name: Eumont Tank Battery**

Work Order #: 458450

Analyst: KEB

Lab Batch ID: 908636

Sample: 634866-1-BKS

Units: mg/kg

Date Prepared: 03/08/2013

Batch #: 1

Project ID: (IRP-1799)  
Date Analyzed: 03/08/2013

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/kg												
BTEX by EPA 8021B		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Benzene		<0.00100	0.100	0.0812	81	0.0998	0.0812	81	0	70-130	35	
Toluene		<0.00201	0.100	0.0807	81	0.0998	0.0801	80	1	70-130	35	
Ethylbenzene		<0.00100	0.100	0.0779	78	0.0998	0.0786	79	1	71-129	35	
m_p-Xylenes		<0.00201	0.201	0.151	75	0.200	0.147	74	3	70-135	35	
o-Xylene		<0.00100	0.100	0.0778	78	0.0998	0.0777	78	0	71-133	35	

Analyst: AMB

Lab Batch ID: 908358

Sample: 908358-1-BKS

Date Prepared: 03/06/2013

Batch #: 1

Date Analyzed: 03/06/2013

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/kg												
Inorganic Anions by EPA 300/300.1		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Chloride		<2.00	50.0	51.7	103	50.0	51.4	103	1	80-120	20	

Relative Percent Difference RPD =  $200 * [(C-F)/(C+F)]$   
Blank Spike Recovery [D] =  $100 * (C)/[B]$   
Blank Spike Duplicate Recovery [G] =  $100 * (F)/[E]$   
All results are based on MDL and Validated for QC Purposes

**Project Name: Eumont Tank Battery**
**Work Order #: 458450**
**Analyst: KEB**
**Lab Batch ID: 908097**
**Sample: 634521-1-BKS**
**Batch #: 1**
**Date Prepared: 03/01/2013**
**Project ID: (IRP-1799)**
**Date Analyzed: 03/01/2013**
**Matrix: Solid**
**Units: mg/kg**

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/kg												
TPH By SW8015 Mod		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
C6-C12 Gasoline Range Hydrocarbons		<15.0	998	968	97	997	1010	101	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons		<15.0	998	996	100	997	1040	104	4	70-135	35	

**Analyst: KEB**
**Lab Batch ID: 908102**
**Sample: 634524-1-BKS**
**Batch #: 1**
**Date Prepared: 03/01/2013**
**Date Analyzed: 03/02/2013**
**Matrix: Solid**
**Units: mg/kg**

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/kg												
TPH By SW8015 Mod		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
C6-C12 Gasoline Range Hydrocarbons		<15.0	997	1010	101	999	996	100	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons		<15.0	997	1040	104	999	1040	104	0	70-135	35	

Relative Percent Difference  $RPD = 200 * [(C-F) / (C+F)]$ 

Blank Spike Recovery  $[D] = 100 * (C) / [B]$ 

Blank Spike Duplicate Recovery  $[G] = 100 * (F) / [E]$ 

All results are based on MDL and Validated for QC Purposes





**Project Name: Eumont Tank Battery**

**Work Order #:** 458450

**Lab Batch #:** 908358

**Date Analyzed:** 03/06/2013

**QC- Sample ID:** 458450-001 S

**Reporting Units:** mg/kg

**Date Prepared:** 03/06/2013

**Batch #:** 1

**Project ID:** (IRP-1799)

**Analyst:** AMB

**Matrix:** Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	94.3	250	356	105	80-120	

**Lab Batch #:** 908358

**Date Analyzed:** 03/06/2013

**QC- Sample ID:** 458452-002 S

**Reporting Units:** mg/kg

**Date Prepared:** 03/06/2013

**Batch #:** 1

**Analyst:** AMB

**Matrix:** Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	35.7	250	282	99	80-120	

Matrix Spike Percent Recovery [D] =  $100 \times (C-A)/B$   
 Relative Percent Difference [E] =  $200 \times (C-A)/(C+B)$   
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



**Project Name: Eumont Tank Battery**

**Work Order # :** 458450

**Lab Batch ID:** 908636

**Date Analyzed:** 03/08/2013

**Project ID:** (IRP-1799)

**Batch #:** 1 **Matrix:** Soil

**Analyst:** KEB

**QC- Sample ID:** 458452-004 S

**Date Prepared:** 03/08/2013

**Reporting Units:** mg/kg

Reporting Units: mg/kg											
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
Analytes	BTEX by EPA 8021B										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00110	0.110	0.0885	80	0.110	0.0866	79	2	70-130	35	
Toluene	<0.00221	0.110	0.0838	76	0.110	0.0782	71	7	70-130	35	
Ethylbenzene	<0.00110	0.110	0.0864	79	0.110	0.0764	69	12	71-129	35	X
m_p-Xylenes	<0.00221	0.221	0.155	70	0.220	0.140	64	10	70-135	35	X
o-Xylene	<0.00110	0.110	0.0789	72	0.110	0.0738	67	7	71-133	35	X

**Lab Batch ID:** 908097

**Date Analyzed:** 03/01/2013

**Reporting Units:** mg/kg

**Batch #:** 1 **Matrix:** Soil

**Analyst:** KEB

**QC- Sample ID:** 458375-005 S

**Date Prepared:** 03/01/2013

Reporting Units: mg/kg											
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
TPH By SW8015 Mod  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<16.4	1100	1090	99	1090	1130	104	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<16.4	1100	1140	104	1090	1180	108	3	70-135	35	

**Lab Batch ID:** 908102

**Date Analyzed:** 03/02/2013

**Reporting Units:** mg/kg

**Batch #:** 1 **Matrix:** Soil

**Analyst:** KEB

**QC- Sample ID:** 458454-001 S

**Date Prepared:** 03/01/2013

Reporting Units: mg/kg											
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
TPH By SW8015 Mod  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.9	1060	1060	100	1060	1070	101	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	45.5	1060	1140	103	1060	1150	104	1	70-135	35	

Matrix Spike Percent Recovery  $[D] = 100 \times (C-A)/B$   
Relative Percent Difference  $RPD = 200 \times (C-F)/(C+F)$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery  $[G] = 100 \times (F-A)/E$



**Project Name: Eumont Tank Battery**

**Work Order #: 458450**

**Lab Batch #: 908071**

**Project ID: (IRP-1799)**

**Date Analyzed: 03/01/2013 13:45**

**Date Prepared: 03/01/2013**

**Analyst: WRU**

**QC- Sample ID: 458450-001 D**

**Batch #: 1**

**Matrix: Soil**

**Reporting Units: %**

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	16.1	16.0	1	20	

Spike Relative Difference RPD  $200 * |(B-A)/(B+A)|$   
 All Results are based on MDL and validated for QC purposes.  
 BRL - Below Reporting Limit

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Phone: 432-563-1800**  
**Fax: 432-563-1713**

**Project Name: Eumont Tank Battery**

Project #: (1RP-1799)

**Project Loc: Lea County, NM**

**PO #: Bill Southern Union Gas**

**Fax No: (575) 396-1429**

Fax No:

pm@basinenv.com, cvndi.inskeep@sug.com, rose.slade@sug.com

e-mail:

pm@basinenv.com, cvndi.inskeep@sug.com, rose.slade@sug.com

(lab use only) 458450  
ORDER #:

Special Instructions:		Hold For BTEX		Laboratory Comments:	
Relinquished by:	Date	Time	Received by:	Date	Time
Jul Jones	2/25/13	10:00	[Signature]	2/25/13	16:00
Relinquished by:	Date	Time	Received by:	Date	Time
[Signature]	2-27-13	10:10	[Signature]	2/27/13	08:00
Relinquished by:	Date	Time	Received by:	Date	Time
[Signature]			[Signature]	2/28/13	15:16

Sample Containers Intact? ☒ Y ☐ N

VOOCs Free of Headspace? ☒ Y ☐ NA

Labels on container(s) ☒ Y ☐ N

Custody seals on container(s) ☒ Y ☐ N

Custody seals on cooler(s) ☒ Y ☐ N

Sample Hand Delivered by Sampler/Client Rep. ? ☒ Y ☐ N

by Containers ☒ Y ☐ N

UPS ☒ DHL ☐ FedEx ☐ Lone Star

Temperature Upon Receipt: 39 °C

Temperature Upon Receipt: 39 °C





# XENCO Laboratories



## Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 02/27/2013 10:20:00 AM

Work Order #: 458450

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

### Sample Receipt Checklist

### Comments

#1 *Temperature of cooler(s)?	1.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: \_\_\_\_\_

Date: \_\_\_\_\_

Checklist reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_

**Analytical Report 458452**  
**for**  
**Southern Union Gas Services- Monahans**

**Project Manager: Joel Lowry**

**Eumont Tank Battery**

**(1RP-1799)**

**11-MAR-13**

Collected By: Client



**12600 West I-20 East Odessa, Texas 79765**

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)  
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)  
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)  
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135)  
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)





11-MAR-13

Project Manager: **Joel Lowry**  
**Southern Union Gas Services- Monahans**  
801 South Loop 464  
Monahans, TX 79756

Reference: XENCO Report No(s): **458452**  
**Eumont Tank Battery**  
Project Address: Lea County, NM

**Joel Lowry:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 458452. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 458452 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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**Nicholas Straccione**

Project Manager

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## Sample Cross Reference 458452



Southern Union Gas Services- Monahans, Monahans, TX

Eumont Tank Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-2 @ 5'	S	02-25-13 11:00	5 ft	458452-001
SB-2 @ 10'	S	02-25-13 11:10	10 ft	458452-002
SB-2 @ 15'	S	02-25-13 11:20	15 ft	458452-003
SB-2 @ 20'	S	02-25-13 11:30	20 ft	458452-004
SB-2 @ 25'	S	02-25-13 11:40	25 ft	458452-005
SB-2 @ 30'	S	02-25-13 11:50	30 ft	458452-006
SB-2 @ 35'	S	02-25-13 12:00	35 ft	458452-007
SB-2 @ 40'	S	02-25-13 12:10	40 ft	458452-008





## CASE NARRATIVE

**Client Name:** Southern Union Gas Services- Monahans  
**Project Name:** Eumont Tank Battery



Project ID: (IRP-1799)  
Work Order Number(s): 458452

Report Date: 11-MAR-13  
Date Received: 02/27/2013

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-908636 BTEX by EPA 8021B  
SW8021BM

Batch 908636, Ethylbenzene, m\_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 458452-006, -008, -004.

The Laboratory Control Sample for Ethylbenzene, m\_p-Xylenes , o-Xylene is within laboratory Control Limits

# Certificate of Analysis Summary 458452

## Southern Union Gas Services- Monahans, Monahans, TX



Project Id: (IRP-1799)

Contact: Joel Lowry

Project Location: Lea County, NM

Project Name: Eumont Tank Battery

Date Received in Lab: Wed Feb-27-13 01:16 pm

Report Date: 11-MAR-13

Project Manager: Nicholas Straccione

Analysis Requested		Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	458452-001	458452-002	458452-003	458452-004	458452-005	458452-006
BTEX by EPA 8021B		Extracted:	SB-2 @ 5'	10- ft	SOIL	Feb-25-13 11:00	Feb-25-13 11:10	Feb-25-13 11:20	Feb-25-13 11:30	Feb-25-13 11:40	Feb-25-13 11:50	Feb-25-13 11:50
		Analyzed:	SB-2 @ 10'	15- ft	SOIL	Mar-08-13 13:10	Mar-08-13 13:10	Mar-08-13 13:20	Mar-08-13 13:30	Mar-08-13 13:40	Mar-08-13 13:50	Mar-08-13 13:50
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene							ND	0.00110	ND	0.00110	ND	0.00106
Toluene							ND	0.00221	ND	0.00221	ND	0.00212
Ethylbenzene							ND	0.00110	ND	0.00110	ND	0.00106
m_p-Xylenes							ND	0.00221	ND	0.00221	ND	0.00212
o-Xylene							ND	0.00110	ND	0.00110	ND	0.00106
Total Xylenes							ND	0.00110	ND	0.00110	ND	0.00106
Total BTEX							ND	0.00110	ND	0.00110	ND	0.00106
Inorganic Anions by EPA 300/300.1		Extracted:	SB-2 @ 5'	10- ft	SOIL	Feb-25-13 11:00	Feb-25-13 11:10	Feb-25-13 11:20	Feb-25-13 11:30	Feb-25-13 11:40	Feb-25-13 11:50	Feb-25-13 11:50
SUB: TX104704215		Analyzed:	SB-2 @ 10'	15- ft	SOIL	Mar-08-13 13:10	Mar-08-13 13:10	Mar-08-13 13:20	Mar-08-13 13:30	Mar-08-13 13:40	Mar-08-13 13:50	Mar-08-13 13:50
Chloride		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Percent Moisture							16.2	10.0	10.30	20.0	13.40	517
Extracted:												
Analyzed:												
Units/RL:												
TPH By SW8015 Mod		Extracted:	SB-2 @ 5'	10- ft	SOIL	Feb-25-13 11:00	Feb-25-13 11:10	Feb-25-13 11:20	Feb-25-13 11:30	Feb-25-13 11:40	Feb-25-13 11:50	Feb-25-13 11:50
		Analyzed:	SB-2 @ 10'	15- ft	SOIL	Mar-08-13 13:10	Mar-08-13 13:10	Mar-08-13 13:20	Mar-08-13 13:30	Mar-08-13 13:40	Mar-08-13 13:50	Mar-08-13 13:50
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons							157	83.0	10.7	16.8	ND	15.9
C12-C28 Diesel Range Hydrocarbons							4630	83.0	21.8	16.8	103	24.6
C28-C35 Oil Range Hydrocarbons							456	83.0	ND	16.3	ND	15.9
Total TPH							5240	83.0	21.8	16.3	24.6	15.9

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Nicholas Straccione  
Project Manager





Project Id: (1RP-1799)

Contact: Joel Lowry

Project Location: Lea County, NM

Project Name: Eumont Tank Battery

Date Received in Lab: Wed Feb-27-13 01:16 pm

Report Date: 11-MAR-13

Project Manager: Nicholas Straccione

<i>Analysis Requested</i>		<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>
<b>BTEX by EPA 8021B</b>		458452-007	SB-2 @ 35'	35- ft	SOIL	Feb-25-13 12:00	Mar-08-13 13:10	Mar-08-13 18:55	mg/kg RL
Benzene							ND 0.00103		
Toluene							ND 0.00206		
Ethylbenzene							ND 0.00103		
m_p-Xylenes							ND 0.00206		
o-Xylene							ND 0.00103		
Total Xylenes							ND 0.00103		
Total BTEX							ND 0.00103		
<b>Inorganic Anions by EPA 300/300.1</b>									
<b>SUB: TX104704215</b>									
Chloride			Mar-06-13 07:35	mg/kg	RL	211 10.0	Mar-06-13 08:40	mg/kg	RL
Percent Moisture									
Extracted:									
Analyzed:									
Units/RL:									
TPH By SW8015 Mod									
Extracted:									
Analyzed:									
Units/RL:									
C6-C12 Gasoline Range Hydrocarbons			Mar-01-13 16:00	mg/kg	RL	ND 15.5	Mar-01-13 16:00	mg/kg	RL
C12-C28 Diesel Range Hydrocarbons			Mar-02-13 09:16	mg/kg	RL	ND 15.5	Mar-02-13 09:42	mg/kg	RL
C28-C35 Oil Range Hydrocarbons						ND 15.5			
Total TPH						ND 15.5			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Nicholas Straccione  
Project Manager

## Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 2505 North Falkenburg Rd, Tampa, FL 33619  
 12600 West I-20 East, Odessa, TX 79765  
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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



## Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 458452,

Project ID: (1RP-1799)

Lab Batch #: 908102

Sample: 458452-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/02/13 07:12

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.5	101	70-135	
o-Terphenyl	54.5	49.8	109	70-135	

Lab Batch #: 908102

Sample: 458452-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/02/13 07:36

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.1	99.8	97	70-135	
o-Terphenyl	51.5	49.9	103	70-135	

Lab Batch #: 908102

Sample: 458452-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/02/13 08:00

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.9	99.7	95	70-135	
o-Terphenyl	51.2	49.9	103	70-135	

Lab Batch #: 908102

Sample: 458452-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/02/13 08:25

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.4	99.8	97	70-135	
o-Terphenyl	52.3	49.9	105	70-135	

Lab Batch #: 908102

Sample: 458452-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/02/13 08:50

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.6	100	97	70-135	
o-Terphenyl	52.0	50.0	104	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.

# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 458452,

Project ID: (1RP-1799)

Lab Batch #: 908102

Sample: 458452-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/02/13 09:16

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.5	99.5	96	70-135	
o-Terphenyl	50.6	49.8	102	70-135	

Lab Batch #: 908102

Sample: 458452-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/02/13 09:42

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.9	99.9	97	70-135	
o-Terphenyl	50.1	50.0	100	70-135	

Lab Batch #: 908208

Sample: 458452-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/04/13 16:46

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.7	99.9	99	70-135	
o-Terphenyl	52.5	50.0	105	70-135	

Lab Batch #: 908636

Sample: 458452-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/08/13 18:22

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0272	0.0300	91	80-120	
4-Bromofluorobenzene	0.0251	0.0300	84	80-120	

Lab Batch #: 908636

Sample: 458452-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/08/13 18:39

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0254	0.0300	85	80-120	
4-Bromofluorobenzene	0.0270	0.0300	90	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 458452,

Project ID: (1RP-1799)

Lab Batch #: 908636

Sample: 458452-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/08/13 18:55

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0288	0.0300	96	80-120	

Lab Batch #: 908102

Sample: 634524-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/02/13 01:36

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	98.9	99.8	99	70-135	
o-Terphenyl	52.7	49.9	106	70-135	

Lab Batch #: 908208

Sample: 634569-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/04/13 12:41

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	97.4	99.8	98	70-135	
o-Terphenyl	51.8	49.9	104	70-135	

Lab Batch #: 908636

Sample: 634866-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/08/13 15:06

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

Lab Batch #: 908102

Sample: 634524-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/02/13 00:47

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	89.3	99.7	90	70-135	
o-Terphenyl	51.5	49.9	103	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 458452,

Project ID: (1RP-1799)

Lab Batch #: 908208

Sample: 634569-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/04/13 11:45

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.6	99.7	99	70-135	
o-Terphenyl	54.1	49.9	108	70-135	

Lab Batch #: 908636

Sample: 634866-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/08/13 14:33

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 908102

Sample: 634524-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/02/13 01:12

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.9	99.9	95	70-135	
o-Terphenyl	55.0	50.0	110	70-135	

Lab Batch #: 908208

Sample: 634569-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/04/13 12:14

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.0	100	93	70-135	
o-Terphenyl	55.0	50.1	110	70-135	

Lab Batch #: 908636

Sample: 634866-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/08/13 14:49

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 458452,

Project ID: (1RP-1799)

Lab Batch #: 908102

Sample: 458454-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/02/13 10:35

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.7	99.7	94	70-135	
o-Terphenyl	53.9	49.9	108	70-135	

Lab Batch #: 908208

Sample: 458454-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/04/13 13:36

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.8	99.6	91	70-135	
o-Terphenyl	52.9	49.8	106	70-135	

Lab Batch #: 908636

Sample: 458452-004 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/08/13 20:01

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0329	0.0300	110	80-120	

Lab Batch #: 908102

Sample: 458454-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/02/13 11:01

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.2	99.9	94	70-135	
o-Terphenyl	55.2	50.0	110	70-135	

Lab Batch #: 908208

Sample: 458454-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/04/13 14:03

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.6	101	99	70-135	
o-Terphenyl	56.7	50.5	112	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



## Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 458452,

Project ID: (1RP-1799)

Lab Batch #: 908636

Sample: 458452-004 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/08/13 20:17

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0315	0.0300	105	80-120	
4-Bromofluorobenzene	0.0342	0.0300	114	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.



## Project Name: Eumont Tank Battery

Work Order #: 458452

Analyst: KEB

Lab Batch ID: 908636

Sample: 634866-1-BKS

Date Prepared: 03/08/2013

Batch #: 1

Project ID: (IRP-1799)

Date Analyzed: 03/08/2013

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/kg												
Analytes	BTEX by EPA 8021B											
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	Benzene	<0.00100	0.100	0.0812	81	0.0998	0.0812	81	0	70-130	35	
	Toluene	<0.00201	0.100	0.0807	81	0.0998	0.0801	80	1	70-130	35	
	Ethylbenzene	<0.00100	0.100	0.0779	78	0.0998	0.0786	79	1	71-129	35	
	m_p-Xylenes	<0.00201	0.201	0.151	75	0.200	0.147	74	3	70-135	35	
	o-Xylene	<0.00100	0.100	0.0778	78	0.0998	0.0777	78	0	71-133	35	

Analyst: AMB

Lab Batch ID: 908358

Sample: 908358-1-BKS

Date Prepared: 03/06/2013

Batch #: 1

Date Analyzed: 03/06/2013

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/kg												
Inorganic Anions by EPA 300/300.1		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Chloride		<2.00	50.0	51.7	103	50.0	51.4	103	1	80-120	20	

Relative Percent Difference RPD =  $200 * [(C-F)/(C+F)]$   
Blank Spike Recovery [D] =  $100 * (C)/[B]$   
Blank Spike Duplicate Recovery [G] =  $100 * (F)/[E]$   
All results are based on MDL and Validated for QC Purposes

**Project Name: Eumont Tank Battery**
**Work Order #: 458452**
**Analyst: KEB**
**Lab Batch ID: 908102**
**Sample: 634524-1-BKS**
**Batch #: 1**
**Date Prepared: 03/01/2013**
**Project ID: (IRP-1799)**
**Date Analyzed: 03/02/2013**
**Matrix: Solid**
**Units: mg/kg**

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/kg												
TPH By SW8015 Mod		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
C6-C12 Gasoline Range Hydrocarbons		<15.0	997	1010	101	999	996	100	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons		<15.0	997	1040	104	999	1040	104	0	70-135	35	

**Analyst: KEB**
**Date Prepared: 03/04/2013**
**Date Analyzed: 03/04/2013**
**Lab Batch ID: 908208**
**Sample: 634569-1-BKS**
**Batch #: 1**
**Matrix: Solid**
**Units: mg/kg**

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/kg												
TPH By SW8015 Mod		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
C6-C12 Gasoline Range Hydrocarbons		<15.0	997	977	98	1000	940	94	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons		<15.0	997	1040	104	1000	981	98	6	70-135	35	

 Relative Percent Difference  $RPD = 200 * (C - F) / (C + F)$ 

 Blank Spike Recovery  $[D] = 100 * (C) / [B]$ 

 Blank Spike Duplicate Recovery  $[G] = 100 * (F) / [E]$ 

All results are based on MDL and Validated for QC Purposes



**Project Name: Eumont Tank Battery**

**Work Order #:** 458452

**Lab Batch #:** 908358

**Date Analyzed:** 03/06/2013

**QC- Sample ID:** 458450-001 S

**Reporting Units:** mg/kg

**Date Prepared:** 03/06/2013

**Batch #:** 1

**Project ID:** (IRP-1799)

**Analyst:** AMB

**Matrix:** Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	94.3	250	356	105	80-120	

**Lab Batch #:** 908358

**Date Analyzed:** 03/06/2013

**QC- Sample ID:** 458452-002 S

**Reporting Units:** mg/kg

**Date Prepared:** 03/06/2013

**Batch #:** 1

**Analyst:** AMB

**Matrix:** Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	35.7	250	282	99	80-120	

Matrix Spike Percent Recovery [D] =  $100 \times (C-A)/B$   
 Relative Percent Difference [E] =  $200 \times (C-A)/(C+B)$   
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



**Project Name: Eumont Tank Battery**

**Work Order #:** 458452

**Lab Batch ID:** 908636

**Date Analyzed:** 03/08/2013

**Project ID:** (IRP-1799)

**QC- Sample ID:** 458452-004 S

**Date Prepared:** 03/08/2013

**Batch #:** 1

**Analyst:** KEB

**Matrix:** Soil

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										Flag
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	
BTEX by EPA 8021B											
Benzene	<0.00110	0.110	0.0885	80	0.110	0.0866	79	2	70-130	35	
Toluene	<0.00221	0.110	0.0838	76	0.110	0.0782	71	7	70-130	35	
Ethylbenzene	<0.00110	0.110	0.0864	79	0.110	0.0764	69	12	71-129	35	X
m,p-Xylenes	<0.00221	0.221	0.155	70	0.220	0.140	64	10	70-135	35	X
o-Xylene	<0.00110	0.110	0.0789	72	0.110	0.0738	67	7	71-133	35	X

**Lab Batch ID:** 908102

**Date Analyzed:** 03/02/2013

**Reporting Units:** mg/kg

**QC- Sample ID:** 458454-001 S

**Date Prepared:** 03/01/2013

**Batch #:** 1

**Analyst:** KEB

**Matrix:** Soil

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										Flag
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	
TPH By SW8015 Mod											
C6-C12 Gasoline Range Hydrocarbons	<15.9	1060	1060	100	1060	1070	101	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	45.5	1060	1140	103	1060	1150	104	1	70-135	35	

**Lab Batch ID:** 908208

**Date Analyzed:** 03/04/2013

**Reporting Units:** mg/kg

**QC- Sample ID:** 458454-002 S

**Date Prepared:** 03/04/2013

**Batch #:** 1

**Analyst:** KEB

**Matrix:** Soil

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										Flag
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	
TPH By SW8015 Mod											
C6-C12 Gasoline Range Hydrocarbons	<17.0	1130	1100	97	1150	1130	98	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<17.0	1130	1170	104	1150	1210	105	3	70-135	35	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B  
Relative Percent Difference RPD = 200\*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E



**Project Name: Eumont Tank Battery**

**Work Order #: 458452**

**Lab Batch #: 908071**

**Project ID: (1RP-1799)**

**Date Analyzed: 03/01/2013 13:45**

**Date Prepared: 03/01/2013**

**Analyst: WRU**

**QC- Sample ID: 458450-001 D**

**Batch #: 1**

**Matrix: Soil**

**Reporting Units: %**

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	16.1	16.0	1	20	

Spike Relative Difference RPD  $200 * |(B-A)/(B+A)|$   
 All Results are based on MDL and validated for QC purposes.  
 BRL - Below Reporting Limit

# Xenco Laboratories

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East  
Odessa, Texas 79765

Phone: 432-563-1800  
Fax: 432-563-1713

Project Manager: Joel Lowry

Project Name: Eumont Tank Battery

Company Name: Basin Environmental Service Technologies, LLC

Project #: (1RP-1799)

Company Address: P.O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: Bill Southern Union Gas

Telephone No: (575) 396-2378

Fax No: (575) 396-1429

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: *Joel Lowry*

e-mail: pm@basinenr.com, cyndi.inskeep@sug.com, rose.slade@sug.com

(lab use only)

ORDER #: 458452

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers										Matrix	Standard TAT 4 DAY												
								Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> SO <sub>4</sub>	None	Other (Specify)	DW = Drinking Water SL = Sludge GW = Groundwater S = Soil/Soil NP = Non-Potable Specify Other	TPH: 418.1 8015M 8015B		TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	CHLORIDES	Total Dissolved Solids	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
01	SB-2 @ 5'	5		2/25/2013	1100		1	X								Soil	X														X
02	SB-2 @ 10'	10		2/25/2013	1110		1	X								Soil	X														X
03	SB-2 @ 15'	15		2/25/2013	1120		1	X								Soil	X														X
04	SB-2 @ 20'	20		2/25/2013	1130		1	X								Soil	X														X
05	SB-2 @ 25'	25		2/25/2013	1140		1	X								Soil	X														X
06	SB-2 @ 30'	30		2/25/2013	1150		1	X								Soil	X														X
07	SB-2 @ 35'	35		2/25/2013	1200		1	X								Soil	X														X
08	SB-2 @ 40'	40		2/25/2013	1210		1	X								Soil	X														X
ORDER #: 458452																															
(lab use only)																															

Special Instructions: Hold For BTEX

Relinquished by: *Joel Lowry* Date: 2/25/13 Time: 10:00

Relinquished by: *Joel Lowry* Date: 2/27/13 Time: 10:10

Relinquished by: *Joel Lowry* Date: 2/28/13 Time: 13:10

Relinquished by: *Maureen Smith* Date: 2/28/13 Time: 13:10

Temperature Upon Receipt: 39.5°C

Laboratory Comments: ☒ Sample Containers intact? ☒ VOCs Free of Headspace? ☒ Labels on containers? ☒ Custody seals on container(s)? ☒ Custody seals on cooler(s)? ☒ Sample Hand Delivered by Sampler/Client Rep.? ☒ by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star





# XENCO Laboratories



## Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 02/27/2013 01:16:00 PM

Work Order #: 458452

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

### Sample Receipt Checklist

### Comments

#1 *Temperature of cooler(s)?	1.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ?	Yes
#22 >10 for all samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH?	Yes

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: \_\_\_\_\_

Date: \_\_\_\_\_

Checklist reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_

**Analytical Report 459358**  
**for**  
**Southern Union Gas Services- Monahans**

**Project Manager: Joel Lowry**

**Eumont Tank Battery**

**(1RP-1799)**

**18-MAR-13**

Collected By: Client



**12600 West I-20 East Odessa, Texas 79765**

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)  
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)  
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)  
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135)  
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)





18-MAR-13

Project Manager: **Joel Lowry**  
**Southern Union Gas Services- Monahans**  
801 South Loop 464  
Monahans, TX 79756

Reference: XENCO Report No(s): **459358**  
**Eumont Tank Battery**  
Project Address: Lea County, NM

**Joel Lowry:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 459358. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 459358 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

---

**Nicholas Straccione**

Project Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

**Southern Union Gas Services- Monahans, Monahans, TX****Eumont Tank Battery**

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Main Exc. NW#1	S	03-13-13 08:30		459358-001
Main Exc. NW#2	S	03-13-13 08:40		459358-002
Main Exc. SW#1	S	03-13-13 08:50		459358-003
Main Exc. SW#2	S	03-13-13 09:00		459358-004
Main Exc. SW#3	S	03-13-13 09:10		459358-005
Main Exc. WW#1	S	03-13-13 09:20		459358-006
Main Exc. WW#2	S	03-13-13 09:30		459358-007
Main Exc. EW#1	S	03-13-13 09:40		459358-008
Main Exc. EW#2	S	03-13-13 09:50		459358-009
Main Exc. EW#3	S	03-13-13 10:00		459358-010
NW Exc. WW	S	03-13-13 10:10		459358-011
NW Exc. EW	S	03-13-13 10:20		459358-012
NW Exc. Floor	S	03-13-13 10:30		459358-013





## CASE NARRATIVE

*Client Name: Southern Union Gas Services- Monahans*  
*Project Name: Eumont Tank Battery*



Project ID: (IRP-1799)  
Work Order Number(s): 459358

Report Date: 18-MAR-13  
Date Received: 03/15/2013

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None

# Certificate of Analysis Summary 459358

## Southern Union Gas Services- Monahans, Monahans, TX



**Project Id:** (IRP-1799)  
**Contact:** Joel Lowry  
**Project Location:** Lea County, NM

**Project Name:** Eumont Tank Battery

**Date Received in Lab:** Fri Mar-15-13 10:18 am  
**Report Date:** 18-MAR-13

**Project Manager:** Nicholas Straccione

<i>Analysis Requested</i>		Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	459358-007	459358-008	459358-009	459358-010	459358-011	459358-012
										Main Exc. WW#2	Main Exc. EW#1	Main Exc. EW#2	Main Exc. EW#3	NW Exc. WW	NW Exc. EW
										SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
										Mar-13-13 09:30	Mar-13-13 09:40	Mar-13-13 09:50	Mar-13-13 10:00	Mar-13-13 10:10	Mar-13-13 10:20
<b>BTEX by EPA 8021B</b>										Mar-15-13 15:30	Mar-15-13 15:30	Mar-15-13 15:30	Mar-15-13 15:30	Mar-15-13 15:30	Mar-15-13 15:30
										mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
										RL	RL	RL	RL	RL	RL
										ND 0.00108	ND 0.00107	ND 0.00111	ND 0.00111	ND 0.00108	ND 0.00114
										ND 0.00215	ND 0.00214	ND 0.00222	ND 0.00222	ND 0.00216	ND 0.00228
										ND 0.00108	ND 0.00107	ND 0.00111	ND 0.00111	ND 0.00108	ND 0.00114
										ND 0.00215	ND 0.00214	ND 0.00222	ND 0.00222	ND 0.00216	ND 0.00228
										ND 0.00108	ND 0.00107	ND 0.00111	ND 0.00111	ND 0.00108	ND 0.00114
										ND 0.00108	ND 0.00107	ND 0.00111	ND 0.00111	ND 0.00108	ND 0.00114
										ND 0.00108	ND 0.00107	ND 0.00111	ND 0.00111	ND 0.00108	ND 0.00114
<b>Inorganic Anions by EPA 300/300.1</b>										Mar-17-13 10:00	Mar-17-13 10:00	Mar-17-13 10:00	Mar-17-13 10:00	Mar-17-13 10:00	Mar-17-13 10:00
										Mar-17-13 23:39	Mar-18-13 00:00	Mar-18-13 00:22	Mar-18-13 00:44	Mar-18-13 01:27	Mar-18-13 01:49
										mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
										RL	RL	RL	RL	RL	RL
										ND 4.35	59.6	42.7	104	14.1	62.7
										ND 4.35	4.32	11.2	11.1	10.8	11.5
<b>Percent Moisture</b>															
										Mar-15-13 12:05	Mar-15-13 12:05	Mar-15-13 12:05	Mar-15-13 12:05	Mar-15-13 12:05	Mar-15-13 12:05
										%	%	%	%	%	%
										8.10	7.41	10.5	9.98	7.71	13.0
										1.00	1.00	1.00	1.00	1.00	1.00
<b>TPH By SW8015 Mod</b>										Mar-15-13 13:10	Mar-15-13 13:10	Mar-15-13 13:10	Mar-15-13 13:10	Mar-15-13 13:10	Mar-15-13 13:10
										Mar-15-13 20:13	Mar-15-13 20:47	Mar-15-13 21:19	Mar-15-13 21:59	Mar-15-13 23:12	Mar-15-13 23:46
										mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
										RL	RL	RL	RL	RL	RL
										ND 16.3	ND 16.2	ND 16.7	ND 16.6	ND 16.2	ND 17.3
										ND 16.3	28.1	25.4	ND 16.6	24.6	17.5
										ND 16.3	ND 16.2	ND 16.7	ND 16.6	ND 16.2	ND 17.3
										ND 16.3	28.1	25.4	ND 16.6	24.6	17.5
										ND 16.3	ND 16.2	ND 16.7	ND 16.6	ND 16.2	ND 17.3
										ND 16.3	28.1	25.4	ND 16.6	24.6	17.5

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Nicholas Straccione  
Project Manager





Project Id: (IRP-1799)

Contact: Joel Lowry

Project Location: Lea County, NM

Project Name: Eumont Tank Battery

Date Received in Lab: Fri Mar-15-13 10:18 am

Report Date: 18-MAR-13

Project Manager: Nicholas Straccione

Analysis Requested	Lab Id:		459358-013						
	Field Id:	Depth:	Matrix:	Sampled:					
BTEX by EPA 8021B				SOIL					
				Mar-13-13 10:30					
	Extracted:			Mar-15-13 15:30					
	Analyzed:			Mar-15-13 19:22					
	Units/RL:			mg/kg RL					
Benzene				ND 0.00107					
Toluene				ND 0.00214					
Ethylbenzene				ND 0.00107					
m_p-Xylenes				ND 0.00214					
o-Xylene				ND 0.00107					
Total Xylenes				ND 0.00107					
Total BTEX				ND 0.00107					
Inorganic Anions by EPA 300/300.1	Extracted:			Mar-17-13 10:00					
	Analyzed:			Mar-18-13 02:10					
	Units/RL:			mg/kg RL					
Chloride				12.0 10.7					
Percent Moisture	Extracted:								
	Analyzed:			Mar-15-13 12:05					
	Units/RL:			% RL					
Percent Moisture				6.84 1.00					
TPH By SW8015 Mod	Extracted:			Mar-15-13 13:10					
	Analyzed:			Mar-16-13 00:26					
	Units/RL:			mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons				ND 16.1					
C12-C28 Diesel Range Hydrocarbons				ND 16.1					
C28-C35 Oil Range Hydrocarbons				ND 16.1					
Total TPH				ND 16.1					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Nicholas Straccione  
Project Manager

## Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(770) 449-8800	(770) 449-5477
(602) 437-0330	



# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 459358, 459358

Project ID: (1RP-1799)

Lab Batch #: 909159

Sample: 459358-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 14:11

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 909159

Sample: 459358-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 14:27

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0347	0.0300	116	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 909159

Sample: 459358-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 14:44

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 909159

Sample: 459358-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 15:00

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0275	0.0300	92	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

Lab Batch #: 909159

Sample: 459358-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 15:16

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.

## Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 459358, 459358

Project ID: (1RP-1799)

Lab Batch #: 909178

Sample: 459358-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 17:10

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.6	100	94	70-135	
o-Terphenyl	47.0	50.0	94	70-135	

Lab Batch #: 909173

Sample: 459358-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 17:27

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

Lab Batch #: 909178

Sample: 459358-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 17:38

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.8	100	70-135	
o-Terphenyl	51.4	49.9	103	70-135	

Lab Batch #: 909173

Sample: 459358-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 17:43

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0254	0.0300	85	80-120	

Lab Batch #: 909173

Sample: 459358-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 18:00

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0265	0.0300	88	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 459358, 459358

Project ID: (1RP-1799)

Lab Batch #: 909178

Sample: 459358-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 18:08

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.9	99.8	96	70-135	
o-Terphenyl	48.6	49.9	97	70-135	

Lab Batch #: 909173

Sample: 459358-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 18:16

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0298	0.0300	99	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

Lab Batch #: 909173

Sample: 459358-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 18:32

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0249	0.0300	83	80-120	
4-Bromofluorobenzene	0.0247	0.0300	82	80-120	

Lab Batch #: 909178

Sample: 459358-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 18:43

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.1	99.5	94	70-135	
o-Terphenyl	47.4	49.8	95	70-135	

Lab Batch #: 909173

Sample: 459358-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 18:49

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0272	0.0300	91	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 459358, 459358

Project ID: (1RP-1799)

Lab Batch #: 909173

Sample: 459358-012 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 19:05

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0323	0.0300	108	80-120	

Lab Batch #: 909178

Sample: 459358-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 19:14

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	95.2	99.8	95	70-135	
o-Terphenyl	49.0	49.9	98	70-135	

Lab Batch #: 909173

Sample: 459358-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 19:22

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0248	0.0300	83	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

Lab Batch #: 909178

Sample: 459358-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 19:45

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	96.6	99.6	97	70-135	
o-Terphenyl	49.1	49.8	99	70-135	

Lab Batch #: 909178

Sample: 459358-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 20:13

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	97.8	99.6	98	70-135	
o-Terphenyl	49.3	49.8	99	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 459358, 459358

Project ID: (1RP-1799)

Lab Batch #: 909178

Sample: 459358-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 20:47

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.9	99.8	95	70-135	
o-Terphenyl	48.3	49.9	97	70-135	

Lab Batch #: 909178

Sample: 459358-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 21:19

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.3	99.6	94	70-135	
o-Terphenyl	47.6	49.8	96	70-135	

Lab Batch #: 909178

Sample: 459358-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 21:59

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.5	99.5	85	70-135	
o-Terphenyl	42.8	49.8	86	70-135	

Lab Batch #: 909178

Sample: 459358-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 23:12

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.6	99.5	89	70-135	
o-Terphenyl	44.7	49.8	90	70-135	

Lab Batch #: 909178

Sample: 459358-012 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/15/13 23:46

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.9	100	91	70-135	
o-Terphenyl	46.1	50.1	92	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.

# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 459358, 459358

Project ID: (1RP-1799)

Lab Batch #: 909178

Sample: 459358-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/16/13 00:26

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.0	99.7	89	70-135	
o-Terphenyl	45.2	49.9	91	70-135	

Lab Batch #: 909159

Sample: 635213-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/15/13 11:11

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 909178

Sample: 635224-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/15/13 16:37

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.2	100	96	70-135	
o-Terphenyl	49.7	50.0	99	70-135	

Lab Batch #: 909173

Sample: 635217-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/15/13 17:11

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	80-120	
4-Bromofluorobenzene	0.0270	0.0300	90	80-120	

Lab Batch #: 909159

Sample: 635213-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/15/13 10:38

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0347	0.0300	116	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 459358, 459358

Project ID: (1RP-1799)

Lab Batch #: 909178

Sample: 635224-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg	Date Analyzed: 03/15/13 15:36	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		102	99.9	102	70-135
o-Terphenyl		55.0	50.0	110	70-135

Lab Batch #: 909173

Sample: 635217-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg	Date Analyzed: 03/15/13 16:38	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0316	0.0300	105	80-120
4-Bromofluorobenzene		0.0258	0.0300	86	80-120

Lab Batch #: 909159

Sample: 635213-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg	Date Analyzed: 03/15/13 10:05	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0332	0.0300	111	80-120
4-Bromofluorobenzene		0.0319	0.0300	106	80-120

Lab Batch #: 909178

Sample: 635224-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg	Date Analyzed: 03/15/13 16:05	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		91.4	99.9	91	70-135
o-Terphenyl		51.8	50.0	104	70-135

Lab Batch #: 909173

Sample: 635217-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg	Date Analyzed: 03/15/13 16:54	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0314	0.0300	105	80-120
4-Bromofluorobenzene		0.0328	0.0300	109	80-120

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 459358, 459358

Project ID: (1RP-1799)

Lab Batch #: 909159

Sample: 459027-018 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 03/15/13 15:33	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0296	0.0300	99	80-120
4-Bromofluorobenzene		0.0329	0.0300	110	80-120

Lab Batch #: 909173

Sample: 459358-013 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 03/15/13 19:38	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0312	0.0300	104	80-120
4-Bromofluorobenzene		0.0324	0.0300	108	80-120

Lab Batch #: 909178

Sample: 459027-020 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 03/16/13 05:09	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		93.0	99.9	93	70-135
o-Terphenyl		54.3	50.0	109	70-135

Lab Batch #: 909159

Sample: 459027-018 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 03/15/13 15:49	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0345	0.0300	115	80-120
4-Bromofluorobenzene		0.0314	0.0300	105	80-120

Lab Batch #: 909173

Sample: 459358-013 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 03/15/13 19:55	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0353	0.0300	118	80-120
4-Bromofluorobenzene		0.0310	0.0300	103	80-120

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.





## Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 459358, 459358

Project ID: (1RP-1799)

Lab Batch #: 909178

Sample: 459027-020 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/16/13 05:43

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.3	100	89	70-135	
o-Terphenyl	52.3	50.1	104	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.

**Project Name: Eumont Tank Battery**
**Work Order #:** 459358, 459358

**Analyst:** KEB

**Lab Batch ID:** 909159

**Sample:** 635213-1-BKS

**Date Prepared:** 03/15/2013

**Batch #:** 1

**Project ID:** (IRP-1799)

**Date Analyzed:** 03/15/2013

**Matrix:** Solid

**Units:** mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Units: mg/kg											
BTEX by EPA 8021B											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.0835	84	0.100	0.0890	89	6	70-130	35	
Toluene	<0.00200	0.100	0.0854	85	0.100	0.0884	88	3	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0864	86	0.100	0.0957	96	10	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.164	82	0.200	0.184	92	11	70-135	35	
o-Xylene	<0.00100	0.100	0.0890	89	0.100	0.0941	94	6	71-133	35	

**Analyst:** KEB

**Lab Batch ID:** 909173

**Sample:** 635217-1-BKS

**Date Prepared:** 03/15/2013

**Batch #:** 1

**Date Analyzed:** 03/15/2013

**Matrix:** Solid

**Units:** mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Units: mg/kg											
BTEX by EPA 8021B											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.0815	82	0.100	0.0906	91	11	70-130	35	
Toluene	<0.00200	0.100	0.0801	80	0.100	0.0921	92	14	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0795	80	0.100	0.0890	89	11	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.152	76	0.200	0.170	85	11	70-135	35	
o-Xylene	<0.00100	0.100	0.0771	77	0.100	0.0861	86	11	71-133	35	

$$\text{Relative Percent Difference RPD} = 200 * (C - F) / (C + F)$$

$$\text{Blank Spike Recovery [D]} = 100 * (C) / [B]$$

$$\text{Blank Spike Duplicate Recovery [G]} = 100 * (F) / [E]$$

All results are based on MDL and Validated for QC Purposes



**Project Name: Eumont Tank Battery**
**Work Order #:** 459358, 459358

**Analyst:** AMB

**Lab Batch ID:** 909165

**Sample:** 635216-1-BKS

**Date Prepared:** 03/17/2013

**Batch #:** 1

**Project ID:** (IRP-1799)

**Date Analyzed:** 03/17/2013

**Matrix:** Solid

**Units:** mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/kg	Inorganic Anions by EPA 300/300.1	Blank Sample Result	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate Result	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
		[A]	[B]	[C]	[D]	[E]	[F]	[G]				
		<2.00	50.0	48.4	97	50.0	49.1	98	1	80-120	20	
	Analytes											
	Chloride											

**Analyst:** KEB

**Date Prepared:** 03/15/2013

**Date Analyzed:** 03/15/2013

**Lab Batch ID:** 909178

**Sample:** 635224-1-BKS

**Batch #:** 1

**Matrix:** Solid

**Units:** mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Units: mg/kg											
Analytes	TPH By SW8015 Mod										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.0	999	953	95	999	931	93	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	999	984	98	999	992	99	1	70-135	35	

 Relative Percent Difference RPD =  $200 * [(C-F) / (C+F)]$ 

 Blank Spike Recovery [D] =  $100 * (C) / [B]$ 

 Blank Spike Duplicate Recovery [G] =  $100 * (F) / [E]$ 

All results are based on MDL and Validated for QC Purposes



**Project Name: Eumont Tank Battery**

**Work Order #:** 459358

**Lab Batch #:** 909165

**Date Analyzed:** 03/17/2013

**QC- Sample ID:** 459358-001 S

**Reporting Units:** mg/kg

**Date Prepared:** 03/17/2013

**Batch #:** 1

**Project ID:** (IRP-1799)

**Analyst:** AMB

**Matrix:** Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	<4.17	104	123	118	80-120	

**Lab Batch #:** 909165

**Date Analyzed:** 03/18/2013

**QC- Sample ID:** 459358-010 S

**Reporting Units:** mg/kg

**Date Prepared:** 03/17/2013

**Batch #:** 1

**Analyst:** AMB

**Matrix:** Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	104	278	400	106	80-120	

Matrix Spike Percent Recovery [D] =  $100 \times (C-A)/B$   
 Relative Percent Difference [E] =  $200 \times (C-A)/(C+B)$   
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit





Project Name: Eumont Tank Battery

Work Order #: 459358

Lab Batch ID: 909159

Date Analyzed: 03/15/2013

Reporting Units: mg/kg

Project ID: (IRP-1799)

QC- Sample ID: 459027-018 S Batch #: 1 Matrix: Soil

Date Prepared: 03/15/2013 Analyst: KEB

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	BTEX by EPA 8021B										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00104	0.104	0.0818	79	0.104	0.0799	77	2	70-130	35	
Toluene	<0.00207	0.104	0.0814	78	0.104	0.0850	82	4	70-130	35	
Ethylbenzene	<0.00104	0.104	0.0813	78	0.104	0.0838	81	3	71-129	35	
m_p-Xylenes	<0.00207	0.207	0.159	77	0.207	0.160	77	1	70-135	35	
o-Xylene	<0.00104	0.104	0.0824	79	0.104	0.0839	81	2	71-133	35	

Lab Batch ID: 909173

Date Analyzed: 03/15/2013

Reporting Units: mg/kg

QC- Sample ID: 459358-013 S Batch #: 1 Matrix: Soil

Date Prepared: 03/15/2013 Analyst: KEB

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	BTEX by EPA 8021B										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00107	0.107	0.0925	86	0.107	0.0866	81	7	70-130	35	
Toluene	<0.00213	0.107	0.0871	81	0.107	0.0806	75	8	70-130	35	
Ethylbenzene	<0.00107	0.107	0.0914	85	0.107	0.0782	73	16	71-129	35	
m_p-Xylenes	<0.00213	0.213	0.170	80	0.215	0.152	71	11	70-135	35	
o-Xylene	<0.00107	0.107	0.0849	79	0.107	0.0764	71	11	71-133	35	

Matrix Spike Percent Recovery  $[D] = 100 \times (C-A)/B$   
Relative Percent Difference  $RPD = 200 \times |(C-F)/(C+F)|$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery  $[G] = 100 \times (F-A)/E$



**Project Name: Eumont Tank Battery**

**Work Order # :** 459358

**Project ID:** (IRP-1799)

**Lab Batch ID:** 909178

**Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 03/16/2013

**QC- Sample ID:** 459027-020 S **Analyst:** KEB

**Date Prepared:** 03/15/2013

**Reporting Units:** mg/kg

Reporting Units: mg/kg												
TPH By SW8015 Mod  Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	C6-C12 Gasoline Range Hydrocarbons	<16.5	1100	981	89	1100	926	84	6	70-135	35	
	C12-C28 Diesel Range Hydrocarbons	<16.5	1100	1140	104	1100	1090	99	4	70-135	35	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B  
Relative Percent Difference RPD = 200\*[(C-F)/(C+F)]

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit



**Project Name: Eumont Tank Battery**

**Work Order #: 459358**

**Lab Batch #: 909118**

**Date Analyzed: 03/15/2013 12:05**

**Date Prepared: 03/15/2013**

**Project ID: (1RP-1799)**

**Analyst: WRU**

**QC- Sample ID: 459358-001 D**

**Batch #: 1**

**Matrix: Soil**

**Reporting Units: %**

## SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	4.15	4.00	4	20	

Spike Relative Difference RPD  $200 * |(B-A)/(B+A)|$   
 All Results are based on MDL and validated for QC purposes.  
 BRL - Below Reporting Limit

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Phone: 432-563-1800**  
**Fax: 432-563-1713**

**Project Name: Eumont Tank Battery**

Project #: (1RP-1799)

Project Loc: Lea County, NM

PO #: Bill Southern Union Gas

**Fax No: (575) 396-1429**

pm@basinenv.com, cyndi.inskeep@sug.com, rose.slade@sug.com

Analyze For \_\_\_\_\_

**Analyze For:**

	c
	e

[illegible]

Special Instructions:

**Laboratory Comments:**

Relinquished by:

Received by:

Received by:

Date	Time
------	------

Received by:	Date	Time
	Labels on container(s)	

Relinquished by:

Received by:

Received by:

Date	Time
------	------

Received by:	Date	Time	Sample Hand Delivered	Y	N
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**Relinquished by:**

Received by EL0T:

Date	Time
------	------

Received by EL0T:	
Date	Time







# XENCO Laboratories



## Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 03/15/2013 10:18:00 AM

Work Order #: 459358

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

### Sample Receipt Checklist

### Comments

#1 *Temperature of cooler(s)?	-2.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: \_\_\_\_\_

Date: \_\_\_\_\_

Checklist reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_



**Analytical Report 459606**  
**for**  
**Southern Union Gas Services- Monahans**

**Project Manager: Joel Lowry**

**Eumont Tank Battery**

**(1RP-1799)**

**21-MAR-13**

Collected By: Client



**12600 West I-20 East Odessa, Texas 79765**

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)  
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)  
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)  
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135)  
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



21-MAR-13

Project Manager: **Joel Lowry**  
**Southern Union Gas Services- Monahans**  
801 South Loop 464  
Monahans, TX 79756

Reference: XENCO Report No(s): **459606**  
**Eumont Tank Battery**  
Project Address: Lea County, NM

**Joel Lowry:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 459606. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 459606 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

---

**Nicholas Straccione**

Project Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.  
Certified and approved by numerous States and Agencies.  
A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America





## Sample Cross Reference 459606



**Southern Union Gas Services- Monahans, Monahans, TX**

Eumont Tank Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NW EXC. NW	S	03-18-13 10:10		459606-001



## CASE NARRATIVE

*Client Name: Southern Union Gas Services- Monahans*  
*Project Name: Eumont Tank Battery*



Project ID: (IRP-1799)  
Work Order Number(s): 459606

Report Date: 21-MAR-13  
Date Received: 03/19/2013

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None





**Project Id:** (IRP-1799)  
**Contact:** Joel Lowry  
**Project Location:** Lea County, NM

**Project Name:** Eumont Tank Battery

**Date Received in Lab:** Tue Mar-19-13 08:30 am  
**Report Date:** 21-MAR-13  
**Project Manager:** Nicholas Straccione

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:		459606-001 NW EXC. NW SOIL Mar-18-13 10:10				
	Extracted:	Analyzed:	Units/RL:	mg/kg RL			
BTEX by EPA 8021B							
Benzene				ND 0.00105			
Toluene				ND 0.00210			
Ethylbenzene				ND 0.00105			
m_p-Xylenes				ND 0.00210			
o-Xylene				ND 0.00105			
Total Xylenes				ND 0.00105			
Total BTEX				ND 0.00105			
Inorganic Anions by EPA 300/300.1	Extracted:			Mar-20-13 12:00			
	Analyzed:			Mar-21-13 07:47			
	Units/RL:			mg/kg RL			
Chloride				17.6 2.82			
Percent Moisture	Extracted:			Mar-20-13 17:00			
	Analyzed:			% RL			
	Units/RL:			5.60 1.00			
TPH By SW8015 Mod	Extracted:			Mar-20-13 15:00			
	Analyzed:			Mar-21-13 00:08			
	Units/RL:			mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons				ND 15.9			
C12-C28 Diesel Range Hydrocarbons				ND 15.9			
C28-C35 Oil Range Hydrocarbons				ND 15.9			
Total TPH				ND 15.9			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi



Nicholas Straccione  
Project Manager

## Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(770) 449-8800	(770) 449-5477
(602) 437-0330	



## Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 459606,

Project ID: (1RP-1799)

Lab Batch #: 909459

Sample: 459606-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/20/13 21:05

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0275	0.0300	92	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

Lab Batch #: 909470

Sample: 459606-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/21/13 00:08

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	99.3	100	99	70-135	
o-Terphenyl	49.4	50.0	99	70-135	

Lab Batch #: 909459

Sample: 635403-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/20/13 20:49

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0249	0.0300	83	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

Lab Batch #: 909470

Sample: 635407-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/20/13 23:40

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	103	99.9	103	70-135	
o-Terphenyl	51.9	50.0	104	70-135	

Lab Batch #: 909459

Sample: 635403-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/20/13 20:16

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0344	0.0300	115	80-120	
4-Bromofluorobenzene	0.0325	0.0300	108	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.

# Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 459606,

Project ID: (1RP-1799)

Lab Batch #: 909470

Sample: 635407-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/20/13 22:44

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.5	99.7	95	70-135	
o-Terphenyl	57.6	49.9	115	70-135	

Lab Batch #: 909459

Sample: 635403-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/20/13 20:32

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 909470

Sample: 635407-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/20/13 23:12

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.6	100	70-135	
o-Terphenyl	53.5	49.8	107	70-135	

Lab Batch #: 909459

Sample: 459606-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/20/13 21:54

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 909470

Sample: 459606-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/21/13 00:36

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.4	99.6	100	70-135	
o-Terphenyl	55.4	49.8	111	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.



## Form 2 - Surrogate Recoveries

Project Name: Eumont Tank Battery

Work Orders : 459606,

Project ID: (1RP-1799)

Lab Batch #: 909459

Sample: 459606-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/20/13 22:10

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0266	0.0300	89	80-120	
4-Bromofluorobenzene	0.0327	0.0300	109	80-120	

Lab Batch #: 909470

Sample: 459606-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/21/13 01:04

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	98.7	99.8	99	70-135	
o-Terphenyl	51.2	49.9	103	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.

**Project Name: Eumont Tank Battery**

Work Order #: 459606

Analyst: KEB

Lab Batch ID: 909459

Sample: 635403-1-BKS

Date Prepared: 03/20/2013

Batch #: 1

Project ID: (IRP-1799)

Date Analyzed: 03/20/2013

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/kg												
BTEX by EPA 8021B		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Benzene		<0.000992	0.0992	0.106	107	0.0998	0.0841	84	23	70-130	35	
Toluene		<0.00198	0.0992	0.102	103	0.0998	0.0831	83	20	70-130	35	
Ethylbenzene		<0.000992	0.0992	0.103	104	0.0998	0.0775	78	28	71-129	35	
m_p-Xylenes		<0.00198	0.198	0.196	99	0.200	0.148	74	28	70-135	35	
o-Xylene		<0.000992	0.0992	0.101	102	0.0998	0.0769	77	27	71-133	35	

Analyst: AMB

Lab Batch ID: 909477

Sample: 635411-1-BKS

Date Prepared: 03/20/2013

Batch #: 1

Date Analyzed: 03/21/2013

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/kg												
Inorganic Anions by EPA 300/300.1		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Chloride		<2.00	50.0	50.8	102	50.0	51.9	104	2	80-120	20	

Relative Percent Difference RPD =  $200 * [(C-F) / (C+F)]$

Blank Spike Recovery [D] =  $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] =  $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes



Project Name: Eumont Tank Battery

Work Order #: 459606

Analyst: KEB

Lab Batch ID: 909470

Sample: 635407-1-BKS

Date Prepared: 03/20/2013

Batch #: 1

Project ID: (IRP-1799)

Date Analyzed: 03/20/2013

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/kg												
Analytes	TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	C6-C12 Gasoline Range Hydrocarbons	<15.0	997	936	94	996	993	100	6	70-135	35	
	C12-C28 Diesel Range Hydrocarbons	<15.0	997	984	99	996	1040	104	6	70-135	35	

Relative Percent Difference RPD =  $200 * [(C-F) / (C+F)]$   
Blank Spike Recovery [D] =  $100 * (C) / [B]$   
Blank Spike Duplicate Recovery [G] =  $100 * (F) / [E]$   
All results are based on MDL and Validated for QC Purposes



**Project Name: Eumont Tank Battery**

**Work Order #:** 459606

**Lab Batch #:** 909477

**Date Analyzed:** 03/21/2013

**QC- Sample ID:** 459439-001 S

**Reporting Units:** mg/kg

**Date Prepared:** 03/20/2013

**Batch #:** 1

**Project ID:** (1RP-1799)

**Analyst:** AMB

**Matrix:** Soil

**MATRIX / MATRIX SPIKE RECOVERY STUDY**

**Inorganic Anions by EPA 300**

**Analytes**

	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	13.6	73.1	76.7	86	80-120	

Matrix Spike Percent Recovery [D] =  $100 \times (C-A)/B$   
 Relative Percent Difference [E] =  $200 \times (C-A)/(C+B)$   
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Work Order #: 459606

Lab Batch ID: 909459

Date Analyzed: 03/20/2013

Reporting Units: mg/kg

Project ID: (IRP-1799)

QC- Sample ID: 459606-001 S

Date Prepared: 03/20/2013

Batch #: 1 Matrix: Soil

Analyst: KEB

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY												
BTEX by EPA 8021B  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	Benzene	<0.00106	0.106	0.0864	82	0.106	0.0993	94	14	70-130	35	
	Toluene	<0.00211	0.106	0.0798	75	0.106	0.0913	86	13	70-130	35	
	Ethylbenzene	<0.00106	0.106	0.0758	72	0.106	0.0917	87	19	71-129	35	
	m_p-Xylenes	<0.00211	0.211	0.148	70	0.212	0.174	82	16	70-135	35	
	o-Xylene	<0.00106	0.106	0.0755	71	0.106	0.0907	86	18	71-133	35	

Lab Batch ID: 909470

Date Analyzed: 03/21/2013

Reporting Units: mg/kg

QC- Sample ID: 459606-001 S

Date Prepared: 03/20/2013

Batch #: 1 Matrix: Soil

Analyst: KEB

Reporting Units: mg/kg											
TPH By SW8015 Mod  Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.8	1060	1010	95	1060	1010	95	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.8	1060	1090	103	1060	1080	102	1	70-135	35	

Matrix Spike Percent Recovery  $[D] = 100 \times (C-A)/B$   
Relative Percent Difference  $RPD = 200 \times [(C-F)/(C+F)]$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery  $[G] = 100 \times (F-A)/E$

**Project Name: Eumont Tank Battery**

**Work Order #: 459606**

**Lab Batch #: 909467**

**Project ID: (1RP-1799)**

**Date Analyzed: 03/20/2013 17:00**

**Date Prepared: 03/20/2013**

**Analyst: WRU**

**QC- Sample ID: 459439-001 D**

**Batch #: 1**

**Matrix: Soil**

**Reporting Units: %**

## SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	8.98	9.20	2	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) |  
All Results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East  
Odessa, Texas 79765

**Phone: 432-563-1800**  
**Fax: 432-563-1713**

**Project Manager:** Joel Lowry

**Project Name: Eumont Tank Battery**

Company Name	Basin Environmental Service Technologies, LLC
--------------	---

Project #: (1RP-1799)

Company Address: P.O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

**PO #: Bill Southern Union Gas**

Telephone No: (575)396-2378

**Fax No:** (575) 396-1429

Sampler Signature:

pm@basinenv.com, cyndi.inskeep@sug.com, rose.slade@sug.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

☐ NPDES☐ TRP☐ NPDES[illegible]



# XENCO Laboratories



## Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 03/19/2013 08:30:00 AM

Work Order #: 459606

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

### Sample Receipt Checklist

### Comments

#1 *Temperature of cooler(s)?	1.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: \_\_\_\_\_

Date: \_\_\_\_\_

Checklist reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_



District I  
1625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-144  
June 1, 2004

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

Type of action Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator <u>Southern Union Gas Services</u> Telephone <u>575-395-2116</u> e-mail address <u>tony.savoie@sug.com</u>		
Address <u>P.O. Box 1226 Jal, New Mexico 88252</u>		
Facility or well name <u>Eumont Tank Battery</u>	API # _____	U/L or Qtr/Qtr <u>N</u> Sec 30 T 20 S R 37E
County <u>Lea</u>	Latitude <u>32 deg. 32 326</u>	Longitude <u>103 deg 17.689</u> NAD 1927 <input type="checkbox"/> 1983 <input checked="" type="checkbox"/>
Surface Owner Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input checked="" type="checkbox"/> Indian <input type="checkbox"/>		
<b>Pit</b> Type <u>Drilling</u> <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input type="checkbox"/> Liner type <u>Synthetic</u> <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl	<b>Below-grade tank</b> Volume <u>100</u> bbl Type of fluid <u>Produced water and crude oil</u> Construction material <u>Steel</u> Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not _____ Tank was installed by EPNG before the BGT regulations were written _____	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water) 74 ft	Less than 50 feet	(20 points)
	50 feet or more, but less than 100 feet	(10 points)
	100 feet or more	( 0 points)
Wellhead protection area (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources) No	Yes	(20 points)
	No	( 0 points)
Distance to surface water (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses) 1 2 Horizontal miles to Monument Draw	Less than 200 feet	(20 points)
	200 feet or more, but less than 1000 feet	(10 points)
	1000 feet or more	( 0 points)
<b>Ranking Score (Total Points)</b>		10 Points

**If this is a pit closure:** (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks (2) Indicate disposal location (check the onsite box if you are burying in place) onsite ☐ offsite ☐ If offsite, name of facility \_\_\_\_\_ (3) Attach a general description of remedial action taken including remediation start date and end date (4) Groundwater encountered No ☐ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft and attach sample results (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date 2/14/08 Tony Savoie

Printed Name/Title Waste Management and Remediation Specialist

Signature Tony Savoie

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations

Approval.

Printed Name/Title \_\_\_\_\_

Signature ENVIRONMENTAL ENGINEER

Date 2-15-08

RP # 1799

FWHO 806348803